

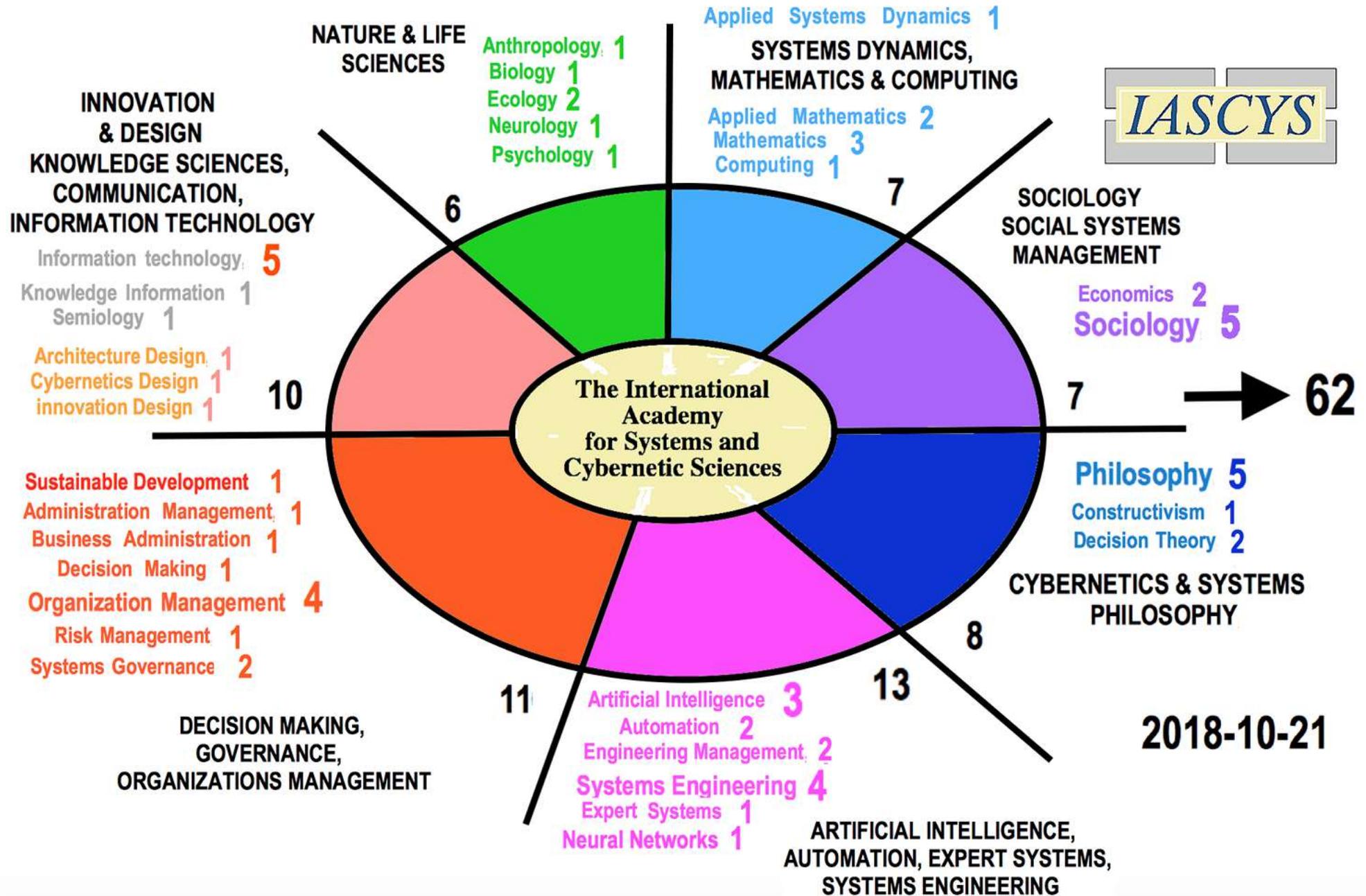


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**The International
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Cybernetic Sciences**

last update: 2019, January 04th





62 Academicians (2018/10/19)

-alphabetic order-

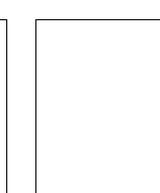
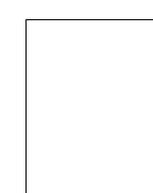
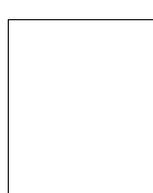
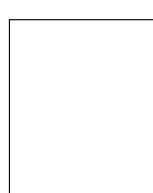
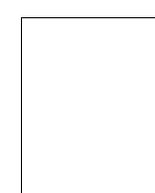
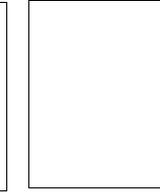
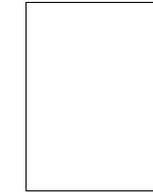
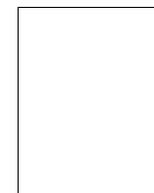
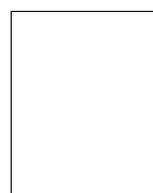
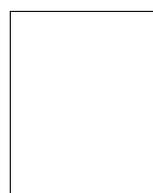
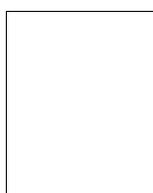
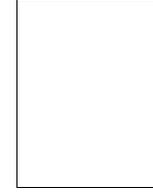
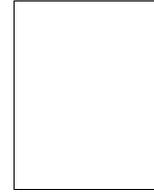
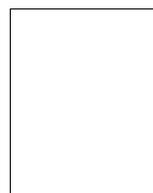
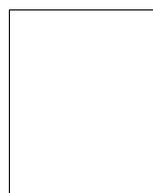
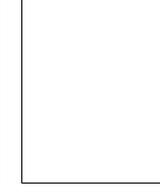
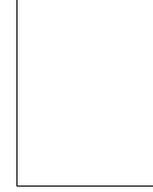
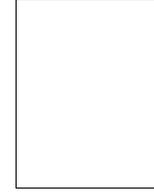
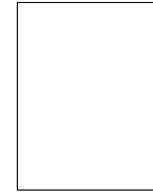
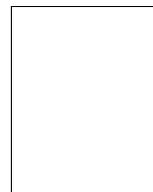
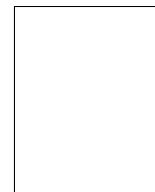
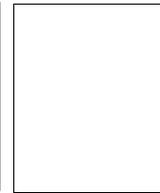
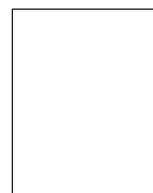
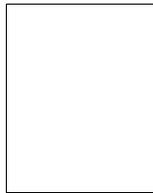
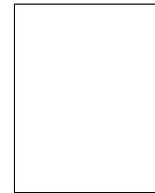
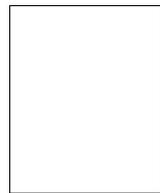
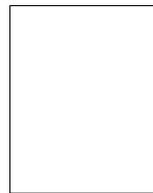
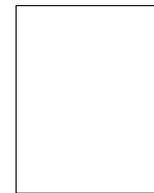
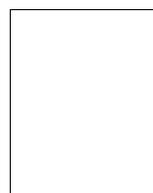
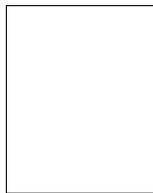
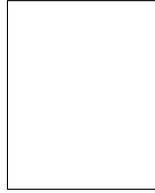
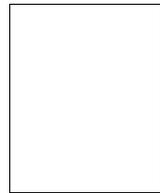
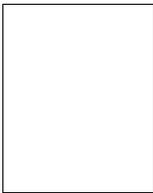
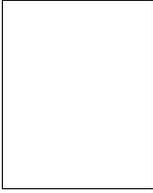
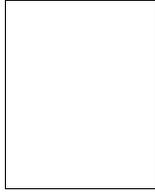
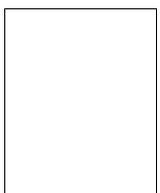
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pictures by alphabetic order

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pictures by alphabetic order



IASCYS

The International Academy for Systems & CYbernetic Sciences

62 Academicians (2019/01/01)

-alphabetic order-

1. Mary Catherine **BATESON** (USA) Cultural Anthropology & Cybernetics
2. Ockert J. H. **BOSCH** (Australia) Quantitative Ecology & Vegetation Management, **Vice-President** ockie.bosch@mzsg.ch
3. Pierre **BRICAGE** (France) Biologist, **Secretary General** pierre.bricage@univ-pau.fr
4. Søren **BRIER** (Denmark) Systems Cybersemiotics Philosopher
5. Pille **BUNNELL** (Canada) Systems Ecologist
6. Tom R. **BURNS** (Sweden) Sociologist
7. Xiaoqiang **CAI** (PR China) Systems Engineering and Engineering Management
8. Antonio **CASELLES MONCHO** (Spain) Applied Mathematician
9. Guangya **CHEN** (PR China) Operations Research & Systems Engineering
10. Hanfu **CHEN** (PR China) Automation & Systems Control Engineering
11. Jian **CHEN** (PR China) Systems Engineering & Management Science
12. C.L. Philip **CHEN** (PR China) Intelligent Systems Engineering
13. T.C. Edwin **CHENG** (PR China) Business Administration
14. Gerhard **CHROUST** (Austria) Systems Engineering & Automation
15. Gerard **de ZEEUW** (Netherlands) Architectural Design
16. Georgi Marko **DIMIROVSKI** (Macedonia) Computer & Control Sciences
17. Jean-Pierre **DUPUY** (France) Risk Management & Ethics
18. Raúl **ESPEJO** (UK) Systems Organization & Complexity Management
19. Charles **FRANÇOIS** (Belgium) Cybernetics, Systems Theory & Systems Science
20. Ranulph **GLANVILLE** (UK) Cybernetics & Design
21. Jifa **GU** (PR China) Operations Research & Systems Engineering, **Vice-President** jfqu@amss.ac.cn
22. Enrique **HERRSCHER** (Argentina) Economist & Systems Scientist
23. Wolfgang **HOFKIRCHNER** (Austria) Information Science, Internet & Society
24. Ray **ISON** (Australia) Systems Governance
25. Michael C. **JACKSON** (UK) Management Systems Scientist
26. Louis H. **KAUFFMAN** (USA) Mathematics & Cybernetics
27. Kyoichi J. **KIJIMA** (Japan) Decision Theory
28. Helena **KNYAZEVA** (Russia) Philosopher
29. Klaus **KRIPPENDORFF** (USA) Communication & Information
30. Kin Keung **LAI** (PR China) Operations Research & Systems Engineering
31. Ervin **LASZLO** (Italy) System's Philosopher
32. Vladimir **LEFEBVRE** (Russia) Social Sciences, Mathematics & Psychology
33. Loet **LEYDESDORFF** (Netherlands) Scientometrics and Informetrics
34. Humberto **MATURANA** (Chile) Neuroscience & Second Order Cybernetics
35. Roberto **MORENO-DIAZ** (Spain) Computing Sciences and Artificial Intelligence
36. Edgar **MORIN** (France) Philosopher & Sociologist
37. Matjaz **MULEJ** (Slovenia) Systems Science & Innovation Theory, **Vice-President** mulej@uni-mb.si
38. Karl H. **MÜLLER** (Austria) Second-order Systems Science & Radical Constructivism
39. Yoshiteru **NAKAMORI** (Japan) Systems & Knowledge Science
40. Nebojsa **NAKICENOVIC** (Montenegro) Systems Sustainable Development

62 Academicians (2018/10/21)



41. Constantin Virgil **NEGOITA** (Romania) Expert Systems & Fuzzy Systems
42. Francisco **PARRA-LUNA** (Spain) Social & Economic Systems Cybernetician
43. José **PEREZ-RIOS** (Spain) System Dynamics & Management
44. Franz **PICHLER** (Austria) Communication & Information Technology
45. Laurence D. **RICHARDS** (USA) Operations Research & Engineering Management
46. Markus **SCHWANINGER** (Switzerland) Complex Social Systems Management
47. Bernard **SCOTT** (UK) Educational Psychologist & Cybernetician
48. George **SOROS** (Hungary) Investor & Social System Analyst
49. Robert **TRAPPL** (Austria) A.I. & Medical Cybernetician, **Honorary President** robert.trappl@ofai.at
50. Murray **TUROFF** (USA) Information Systems Science
51. Stuart **UMPLEBY** (USA) Systems & Cybernetics Philosopher, **President** umpleby@gwu.edu
52. Robert **VALLÉE** (France) Cyberneticist & Mathematician
53. Ernst Von **GLASERSFELD** (Ireland) Philosopher & Cybernetician
54. Shouyang **WANG** (PR China) Operations Research & Systems Engineering
55. Kevin **WARWICK** (UK) Neural Networks & Artificial Intelligence
56. Andrzej P. **WIERZBICKI** (Poland) Decision Theory & Knowledge Science
57. Jennifer **WILBY** (UK) Management Systems
58. Stephen **WOLFRAM** (USA) Science, Technology & Business Computing
59. Jiuping **XU** (PR China) Systems Engineering, Management Science & Engineering
60. Xinmin **YANG** (PR China) Systems Engineering & Decision Making, Governance
61. Ji-Feng **ZHANG** (PR China) Mathematics and Systems Science
62. Rainer E. **ZIMMERMANN** (Germany) Philosopher

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13/08/2016,

<http://iascys.org>

<https://www.service-public.fr/associations>

<http://www.associations.gouv.fr>

Yearbook of International Organizations <http://www.uia.org>

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notices by alphabetical order

Mary Catherine BATESON

mcatbat@gmail.com

Mary Catherine Bateson is a writer and cultural anthropologist. She has retired from teaching but continues as a visiting scholar at Boston College's Center on Aging and Work.

Bateson's original research interest was in the Middle East. More recently she has been interested in how women and men work out distinctive adaptations to culture change, learning from those around them and improvising new ways of being. She is currently exploring how extended longevity and lifelong learning modify the rhythms of the life cycle and the interaction between generations.

Mary Catherine Bateson has authored several books including *With a Daughter's Eye: A Memoir of Margaret Mead and Gregory Bateson*; *Composing a Life*; *Peripheral Visions: Learning Along the Way*; *Full Circles, Overlapping Lives: Culture and Generation in Transition*; *Willing to Learn: Passages of Personal Discovery*; and *Composing a Further Life: The Age of Active Wisdom*.

https://en.wikipedia.org/wiki/Mary_Catherine_Bateson

Ockert J. H. BOSCH

Ockie.Bosch@mzsg.ch

Ockie Bosch is currently the Director of SysPrac Pty Ltd in Australia, a Research Professor at Malik Management in St Gallen, Switzerland and actively involved in Systems Education at Keio University in Japan. He has been appointed as the Business Development Manager of a large tourism company, Outback Tour Services, in Australia, which experiences increasing demands for dealing with complex issues due to its fast growing linkages with a network of international tourism companies and agencies.

Bosch has worked towards achieving sustainability and resilience in the face of climate change and other societal and environmental challenges with a systems-based focus on complex issues such as sustainable and resilient communities, consumers and food security and safety, energy, and liveability. His work in this area has led to a large systems research program addressing three major leverage points for changing the way that people think: Evolutionary Learning Laboratories, "Starting with the Young" and Systems Education. The Evolutionary Learning Laboratory approach has been successfully applied in Bill Gates funded research on addressing the labour issues of women in agriculture in sub-Saharan and south east Asian countries. He is the first author of two books and has contributed to several ones. He contributed so far over 70 journal articles since 2003, despite the fact that he was in an administrative position as Head of School at the University of Queensland. He received a Certificate of Merit from the Vietnamese Government for Contributions to Integrated Governance and diffusing systems thinking in Vietnam and an award from the Chinese Government for Foreigner with highest scientific impact on China's National Day.

He has been awarded many research grants and is often invited to be keynote speaker at international conferences. He has also been invited as Distinguished Guest Professor to Keio University and as a Specialist Professor to the Doctoral program of the University of Patagonia.

Bosch was appointed as Editor-in-Chief of Systems Journal and serves or has served on the editorial board for several other journals such as the Systems Research and Behavioral Science Journal, the Journal for the Grassland Society of Southern Africa, and the Australian Rangeland Journal.

He was President of the International Society for the Systems Sciences (ISSS) (2016/17) and is currently iVice-President of the International Academy for Cybernetics and Systems Sciences. He also serves or has served on the board for the ISSS, the Business Systems Laboratory in Italy the Centre for Native Floriculture at the University of Queensland, the Noosa Biosphere, the Academic Board of the University of Queensland, President (2005) of the Agricultural Production Systems Research Unit, and the board of the CRC Tropical Savannas.

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Pierre BRICAGE

pierre.bricage@univ-pau.fr

-FR- Ex-Secrétaire Général-délégué de l'[UES-EUS](#), pendant 4 ans, ex-directeur du [WOSC](#), pendant 6 ans, Vice-président de l'[AFSCET](#), Pierre Bricage est actuellement Secrétaire général de l'Académie depuis 8 ans. Il a publié plus de 250 contributions, dans plus de 10 pays, en biochimie, écologie, génétique et physiologie. Insistant sur la gestion durable des écosystèmes, l'éducation à l'environnement et l'évolution des systèmes vivants, il a dirigé des programmes sur la gouvernance des systèmes, l'éducation et la communication.

-EN- Past deputy Secretary General of [UES-EUS](#) during 4 years, past Director of [WOSC](#) during 6 years, Vice-President of [AFSCET](#), Pierre Bricage serves as the Secretary General of [IASCYS](#) since 8 years. He has authored more than 250 contributions in over 10 countries in the fields of biochemistry, ecology, genetics, biological rhythms and physiology, focusing on the sustainable management of natural resources, environmental education, living systems theories and applied micro-informatics. He has led training programs on systems governance, educative information and communication technology.

-SP- Ex-Delegado Secretario General de [UES-EUS](#), durante 4 años, ex-Director de [WOSC](#), durante 6 años, Vicepresidente de [AFSCET](#), Pierre Bricage es actualmente Secretario General de [IASCYS](#) desde 2010. Publicó más de 250 contribuciones, en más de 10 países, en bioquímica, ecología, genética, ritmos biológicos y fisiología. Dirigió programas sobre la gobernanza de los sistemas vivos, la educación y la comunicación, enfocando la gobernanza sustentable de los recursos naturales..

<http://armsada.eu>

<http://www.afscet.asso.fr/pagesperso/Bricage.html>

Søren BRIER

sbr.msc@cbs.dk

Søren Brier is MSc in ecological biology focusing on ethology from U. of Copenhagen, Ph.D. in Philosophy of Information Science at U. of Roskilde and Doctor (Habil) of transdisciplinary Philosophy of science at CBS with the book *Cybersemiotics: Why information is not enough*, Toronto University of Press (now a Google book and on Kindle, [Cybersemiotics.com](#)). He is founder and editor in Chief of the interdisciplinary quarterly journal *Cybernetics & Human Knowing*, a fellow of the *American Society for Cybernetics* receiving *The Warren McCulloch Award*; one of the founders of *Int. Ass. For Biosemiotic Studies* and on the editorial board of its Journal *Biosemiotics* as well as the scientific board of *The Science of Information Institute* and *the Foundation of Information Science* and of several scientific journals. He has an interest in the pragmaticist and semiotic philosophy of C. S. Peirce and the system science of N. Luhmann, which he has attempted to combine in the transdisciplinary framework called Cybersemiotics. See [Cybersemiotics.com](#), where you can find videos of international talks and other activities.

https://da.wikipedia.org/wiki/Søren_Brier

https://en.wikipedia.org/wiki/Cybernetics_and_Human_Knowing

<http://cbs.academia.edu/SørenBrier>

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Pille BUNNELL

life.works@mac.com

Pille Bunnell is a systems ecologist who specialised in the integration and explanation of complex concerns for domain specialists, policy makers, students, and the public. As the Director of Environmental Literacy with an international consulting firm she conducted integrative projects in the framework of Adaptive Environmental Management; dealing with concerns ranging from fisheries, wildlife and forestry, to land use management, energy use, and climate change. Over the last couple of decades she has shifted her focus to cybernetics, investigating the relation between complex systems, human understanding, and human activities. Pille is currently particularly interested in the systemic nature of arising and evolving systems, the manner in which we distinguish and constitute our worlds in multiple relational domains, and the ethical and durability implications of different manners of human languaging and living. This interest has been the focus of her teaching in various graduate programs.

After six years as President and Past President of the American Society of Cybernetics, Pille remains active with the society and serves on the editorial boards of Cybernetics and Human Knowing and Constructivist Foundations. In 2007 the ASC awarded her with the Norbert Wiener Medal for contributions to Cybernetics.

Pille likes to integrate the evocative with the explanatory, and hence crosses or blurs the boundaries between art and science. Inherent in this is a desire for intricacy and depth for contextually appropriate ethical behaviour in all our relations with the worlds we thus bring forth.

Tom BURNS

tomnora.burns@gmail.com

Tom Burns is Emeritus Professor of Sociology at the University of Uppsala (Sweden). He was also NORFA Professor at the Centre for International Environment and Development Studies, the Norwegian University of Life Sciences (Norway), Visiting Scholar at the Stanford University, Stanford (California), Jean Monnet Visiting Professor at the European University Institute, Florence (Italy), Gulbenkian Visiting Professor at the University Institute of Business and Social Studies, Lisbon (Portugal).

He got Research Fellowships from the Zentrum für interdisziplinäre Forschung (ZIF) in Bielefeld, and the Wissenschaftszentrum in Berlin (Germany), the Swedish Collegium for Advanced Studies in the Social Sciences, and the Building Research Council (Sweden), the European University Institute, Florence (Italy), the International Research and Exchange Board/Ford Foundation, the University of New Hampshire Faculty Research and the George Washington University Faculty Research, the National Institute for Mental Health, the Social Science Research Council, and Russell Sage (USA).

Burns is a member of the External Scientific Advisory Panel of the European Chemical Industry Council (CEFIC) and participates in advisory meetings and Annual Workshops in Brussels (Belgium). He works with the Commonwealth Club of California and their Climate One Stephen Schneider Memorial Award for Science communication about climate change. He is one of the founders and serves on the Advisory Board of the international outreach network, Millennium Alliance for Humanity and the Biosphere (MAHB).

<https://mahb.stanford.edu/>

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Professor Cai has played a leading and prominent role in promoting the development of systems engineering discipline in Hong Kong as well as in the Asia-Pacific region. He served as the Chairman of the Department of Systems Engineering and Engineering Management, the first department of such disciplines in Hong Kong. Under his leadership, this Department developed into a strong and highly influential force in systems engineering and engineering management in the Asia-Pacific region. He has in recent years been appointed as Dean of School of Science and Engineering, Director of Graduate Studies, and Associate Vice President (Education), of CUHK's new campus in Shenzhen (PR China), which further strengthen and extend his endeavor to be a leading educator in systems engineering and the related science and engineering disciplines. Professor Cai's research interests are mainly in systems engineering, operations research, and management science. He has published over 200 papers in academic journals, books, and conferences, including more than 100 papers in leading journals.

Professor Cai has made significant contributions in practical applications. These include optimal dispatching of hydrothermal power systems, a single-track train scheduling system implemented in Australia, a manpower planning system for the air-cargo terminal of Hong Kong, industrial automation program for Hong Kong electronic manufacturing industry, carbon emission modelling for residential buildings, digital conservation of historical and cultural sites, etc. He co-leads the establishments of the Shenzhen Research Institute of Big Data and the Shenzhen Key Lab for IoT Intelligent Systems, which receive substantial funding supports from the government and the industry, and are expected to advance significantly the R&D and industrial applications in these increasingly important areas.

Professor Cai received the Outstanding Young Scientist award (overseas category) from the National Natural Science Foundation of China, and was awarded the titles of "National 1000-Talent Plan Expert" and "Pearl-River Leading Scholar". He is a Fellow of Hong Kong Institute of Engineers.

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Antonio Caselles has been the Vice President of the "Sociedad Española de Sistemas Generales" (SESUGE), the Spanish Society for General Systems, which is a member of the International Federation for Systems Research and the European Union for Systemics. He has also been the Director and Editor of the "Revista Internacional de Sistemas" (International Systems Review), a publication of SESUGE.

Caselles is interested in the construction of logical-mathematical models which attempt to reproduce the structure and behavior of complex social, biological or ecological systems. These models, as computer programs, allow managers to simulate intervention strategies. He focuses on the automatic programming of computers including search functions that interrelate several variables (data mining).

Caselles is the author of more than 100 articles published in scientific journals or as book chapters about systems theory and its applications to real-life problems, especially socio-economic, ecological and psychological problems. He has conducted diverse research projects with competitive public financing and has consulted with private companies and government agencies. He is the author of the books: [*Control del desempleo por Simulación*](#) and [*Modelización y simulación de sistemas complejos*](#).

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Han-Fu Chen is a professor at the Key Laboratory of Systems and Control, the Institute of Systems Science, the Academy of Mathematics and System Sciences, and at the Chinese Academy of Sciences. He is also an associate editor of *Stochastics and Stochastics Reports*, as well as an advisory board member for *Discrete Event Dynamic Systems*, the *Asian Journal of Control*, and *Kybernetes*.

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Jian Chen works on several journals, he is the editor for the *Journal of Systems Science and Systems Engineering*, an area editor for *Electronic Commerce Research and Applications*, and he is a Member of the Editorial Board for *Systems Research and Behavioral Science*, the *International Journal of Knowledge and Systems Science*, and *Flexible Services and Manufacturing*.

Jian Chen works in the fields of systems engineering and management science. He is the author or co-author of 5 Books and over 200 journal papers.

Jian Chen has been awarded the National Award of Teachers for Guidance for Excellent Doctoral Dissertation Paper in 2010 and was ranked as a Changjiang Scholar in 2007, both by the Ministry of Education of China. He received an IBM Faculty Award from the IBM Corporation in 2008. He also has a Fudan Management Excellence Award from the Fudan Premium Fund of Management, awarded in 2006.

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Philip Chen has contributed research on the subjects of systems and cybernetics, the design of computational intelligent systems, intelligent manufacturing systems design and integration, and adaptive intelligent control for nonlinear systems.

Philip Chen has authored or co-authored one book, two edited books, and over 160 journal papers. Ten of his papers have been listed as "Highly Cited Papers" because they were within the top one percent of papers published in the ISI database.

Philip Chen was awarded the Outstanding Contribution Award by the IEEE SMC Society in 2008, 2010, and 2013. He was presented with the Beijing Science and Engineering Research Award by the Beijing government in 2012. He earned the Macau Natural Science Award from the Macau government in 2014.

Philip Chen has been appointed a Fellow for The Institute of Electrical and Electronics Engineers, The American Association for the Advancement of Science, the Chinese Association of Automation, and the Hong Kong Institution of Engineers.

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He has published over 750 papers in SCI/SSCI journals and co-authored 14 books. In 2015 the *International Journal of Production Research* rated him as the most prolific author in operations management research. He was also named one of the "most cited scientists" (top 1% in terms of citation count) in All Fields, Business and Economics, Computer Science, and Engineering by the *ISI Web of Science* in 2018.

Tai Chiu Edwin Cheng was awarded the Outstanding Young Engineer of the Year Award from the Institute of Industrial and Systems Engineers in 1992 and the Croucher Senior Research Fellowship Award from the Croucher Foundation in 2001. He was conferred the Education Leadership Award by the World Education Congress of CMO Asia in 2014. He was elected Fellow of Hong Kong Academy of Engineering Sciences in 2018.

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Chroust has conducted research in the field of software engineering, specifically concerning the representation and enactment of software process models and quality and improvement of development. He also has research interests in the fields of systems science, the systemic aspects of engineering and disaster management, human aspects of software development, and the history of computers and information technology.

Chroust has authored 10 books, approximately 45 edited proceedings, and over 500 other publications.

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Gerard de Zeeuw (PhD Philosophy, M.A. Mathematics, Statistics, Econometrics) is emeritus professor of research and mathematical modeling in the social sciences (in particular andragogy) of the University of Amsterdam (Netherlands). He has served as (visiting or senior) professor in a number of universities in fields like management, agriculture, mathematics and architecture.

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De Zeeuw's life long project is developing methods for scientific research as well as for research to support individual action (including decision theory, cybernetics, operational research and teaching and learning theory). De Zeeuw has authored 12 books and more than 150 other publications and has earned a number of national awards.

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He was a Senior Research Fellow & Visiting Professor of the Free University of Brussels, Belgium and of Johannes Kepler University of Linz, Austria. He has paid longer- or shorter-term academic visits with seminars to universities in: Aalborg, Ankara, Belgrade, Bradford, Bochum, Brussels, Coimbra, Covilha, Duisburg, Grenoble, Hannover, Istanbul, Izmir, Linz, Lisbon, Ljubljana, London, Maribor, Nis, Ottawa, Carleton, Portsmouth, Sarajevo, Sevastopol, Sofia, Split, Valencia, Wien, Wolverhampton, and Zagreb as well as Beijing, Dalian, Nanjing, Shanghai and Shenyang, and Kaohsiung. He was contributor or editor for Springer International. With 17 monographs chapters, more than 100 journal articles as well as 350 papers in the IEEE and IFAC proceedings series, he received a number of international awards among which the 2009 IET Premium Award from the UK Institution of Engineering & Technology for the best article of the journal IET Control Theory & Applications in 2008, the 2011 Outstanding Service Award from the IFAC Organization during the 18th World Congress in Milano, Italy, the Outstanding Associate Editor 2011 of the International Journal of Automation & Computing, given by jointly the Board of the IJAC and Springer.

He served as the president of former Yugoslav Association for ETAN, Yugoslav NMO of the IFAC, as well as several terms as the president of the ETAI Society, Macedonian NMO of the IFAC. He and a group of collaborators have founded the ETAI Society. He served on the Executive Council of the European Science Foundation (ESF) and on the Technical Board of the International Federation of Automatic Control (IFAC). He has served as an associate editor for several international journals and may high-ranking international conferences, but now serves only the Journal of the Franklin Institute.

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Ouvrages récents: *The Mechanization of the Mind* (Princeton University Press, 2000); *Pour un catastrophisme éclairé* (Seuil, 2002); *Avions-nous oublié le mal? Penser la politique après le 11 septembre* (Bayard, 2002); *La Panique* (Les empêcheurs de penser en rond, 2003); *Petite métaphysique des tsunamis* (Seuil, 2005); *Retour de Tchernobyl: Journal d'un homme en colère* (Seuil, 2006); *On the Origins of Cognitive Science* (The MIT Press, 2009); *Dans l'œil du cyclone* (Carnets Nord, 2009); *La Marque du sacré* (Carnets Nord, 2009; Flammarion, coll. Champs, 2010; prix Roger Caillois de l'essai); *L'Avenir de l'économie. Sortir de l'économystification* (Flammarion, 2012); *La Jalousie. Une géométrie du désir* (Seuil, 2016). *La Guerre qui ne peut avoir lieu. Essai de métaphysique nucléaire*, Paris, Desclée de Brouwer, à paraître en 2018.

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Professor Raul Espejo is an international expert in organisational cybernetics. His most recent book "Organizational Systems: Managing Complexity with the Viable System Model" was published by Springer early in 2011 (co-authored with Alfonso Reyes) and is co-author of two other books and co-editor of three. He has published over a 100 articles in journals and books.

In the early 70s, during the Allende's government in Chile, he was Operational Director of the CYBERSYN project under the scientific direction of Stafford Beer. Since then until 2003, he worked at the Manchester Business School in the UK, the International Institute for Applied Systems Analysis (IIASA) in Laxenburg, Austria and the universities of Aston and Lincoln in the UK. In 1985 he created in the Science Park of Aston University Syncho Ltd, an enterprise in the field of organisational cybernetics. From there he has done research in collaboration with a wide range of institutions worldwide, mainly in organisational diagnosis and design, with a focus on social transformation, organisational learning and democratic processes. Currently he is President of the World Organization of Systems and Cybernetics <http://wosc.co> and Director of Syncho Ltd in the UK.

https://www.researchgate.net/profile/Raul_Espejo

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Charles François is the founder and Honorary President of the Argentine Group for the Study of Systems and Cybernetics (GESI), one of the founders and the Honorary President of the Latin American Society of Systemics (ALAS), as well as Honorary Professor of the Instituto Tecnológico de Buenos Aires (ITBA). He was also a visiting professor in various Universities in Argentina and at the Instituto Andino de Sistemas of Lima in Peru.

François was a member of editorial board for the journals *Systems Research and Behavioral Science*, *Systems Practice*, and *Sistémica*.

François has worked on researching a sociological understanding of the most significant events of the 20th and 21st centuries, and with the practical management of natural & man-made complex systems, in systemic and cybernetic terms.

François has authored several books, a Dictionary of General Systems Theory and Cybernetics in Spanish, virtual tutorials, bibliographic compilations, and papers in Proceedings and International Journals.

He is the editor for ***the International Encyclopedia of Systems and Cybernetics***, an encyclopedia for systems theory, cybernetics, complex systems science.

He was awarded the Bronze Medal of the American Society for Cybernetics in 2007. He was appointed as the Economic and Commercial Attaché of the Belgian Embassy in Argentina from 1966 to 1987.

[https://en.wikipedia.org/wiki/Charles_François_\(systems_scientist\)](https://en.wikipedia.org/wiki/Charles_François_(systems_scientist))

Ranulph GLANVILLE

The late Ranulph Glanville was a freelance researcher and theoretician in both architecture and cybernetics. He was also president of the American Society for Cybernetics (ASC) and a member of the editorial board of *Constructivist Foundations*, *Cybernetics and Human Knowing*, *Kybernetes*, *Systemica*, *Systems Research*, and *Radical Designing*.

Glanville's focus was designing frameworks that support many different understandings and interpretations. He worked to design frameworks in the fields of the arts, education, and cybernetics. Some areas of interest included his "Theory of Objects" and Black Box Theory.

Glanville has authored more than 170 articles and papers about both architecture and cybernetics.

Glanville was recognized as having the best paper by the Science Research Council Studentship at the European Meeting on Cybernetics and Systems Research (EMCSR) in 1984 and 1990, by the Orwellian Symposium in 1994, and by the International Institute for Advanced Study in Systems Research and Cybernetics conference in 1994. He was awarded the Distinguished Service Award and Special Scholarship Award by the International Institute for Advanced Study in Systems Research and Cybernetics in 1994. He has received multiple sundry research and travel grants and awards. The British Council sponsored travel and research exchange awards to places such as Bialystok, Vienna, Helsinki and Tampere.

He was a founder of IASCYS.

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Gu's work is on the topics of meta-synthesis system approach and expert mining. His work focuses on the applications of operations research, systems engineering and decision support systems in the fields of energy, water resources, regional development, and global change. He has completed evaluations of projects and organizations, recently focusing on social systems and traditional Chinese medicine.

Jifa Gu has authored more than 200 papers and over 30 books. He was a founder of the International Academy for Systems and Cybernetic Sciences.

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In 1986 Herrscher was appointed the Fulbright fellow-in-residence at California State University, in Sacramento, CA.

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Wolfgang Hofkirchner is retired Associate Professor for Technology Assessment at the Vienna University of Technology and was Professor for Internet and Society at the Paris Lodron University Salzburg. He founded the Unified Theory of Information Research Group, the Bertalanffy Center for the Study of Systems Science, and the International Society for the Study of Information. He is founding editor of the open access journals *tripleC* and *Systema* and the book series *Exploring Unity Through Diversity*.

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Ison focuses on Systems scholarship that draws on second-order cybernetics and the biology of cognition and for developing the use of Mode-2 modalities of research practice. He has made significant contributions in the areas of systemic governance, systems practice and social learning, systemic environmental decision making, 'knowledge transfer', design of learning/inquiring systems and agricultural/food systems. His research has found practical application in diverse fields including water management, organizational change, staff induction, Higher Education reform and rural development.

Ison was awarded the Wesley College Foundation Medal by the University of Sydney in 2016.

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Michael C. Jackson, born 1951, is Professor of Management Systems and former Dean of Hull University Business School. After studying Politics, Philosophy and Economics at Oxford University, he spent 4 years in the civil service before returning to academic life. He has since studied and taught at Lancaster, Warwick, Lincoln and Hull Universities, being appointed a full professor in 1989.

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He is a Visiting Professor at the Indian Institute of Technology (New Delhi) and an Honorary Professor at the Universidad Ricardo Palma, Lima, Peru.

Jackson's teaching and research interests are Systems thinking, Organizational cybernetics, Creative problem solving, Critical systems thinking, Management science and Systems science. Jackson has written 4 books, edited 6 others and has published over 70 articles in refereed journals.

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Louis Hirsch Kauffman was born in Potsdam, New York, on February 3, 1945.

He graduated from Norwood-Norfolk Central High School in 1962 as valedictorian. He received the degree of B.S. in Mathematics from MIT in 1966 and a PhD in Mathematics from Princeton University in 1972. He is a Professor of Mathematics at the University of Illinois at Chicago.

Kauffman's research is in algebraic topology and particularly in low dimensional topology, the mathematics of form, diagrammatic formal systems and cybernetics. He is particularly interested in the structure of formal diagrammatic systems such as the system of knot diagrams as an approach to foundations. His research in knot theory has opened up a new field of knot theory and has resulted in the discovery of many new invariants of knots and links and relationships with theoretical physics and molecular biology. His work on form and formal systems has led to new points of view in cybernetics, particularly in regard to reflexivity and eigenform and distinction.

Kauffman is the author of four books on knot theory (Princeton University Press and World Scientific Press), a book on map coloring and the reformulation of mathematical problems, *Map Reformulation* (Princeton Editions; London and Zurich (1986)) and is the editor of the World-Scientific 'Book Series On Knots and Everything'. He is the Editor in Chief and founding editor of the *Journal of Knot Theory and Its Ramifications*. He is the co-editor of the review volume (with R. Baadhio) *Quantum Topology* and editor of the review volume *Knots and Applications*, both published by World Scientific Press.

Kauffman is the recipient of a 1993 University Scholar Award by the University of Illinois at Chicago and he is the recipient of the 1993 Warren McCulloch Memorial Award of the American Society for Cybernetics for significant contributions to the field of Cybernetics, the 1996 award of the Alternative Natural Philosophy Association for his contribution to the understanding of discrete physics and the 2014 Norbert Wiener Gold Medal of the American Society for Cybernetics. He was president of the American Society for Cybernetics from 2005 to 2008. He was a Polya Lecturer for the Mathematical Society of America from 2008 to 2010. He was made a Fellow of the American Mathematical Society in 2012.

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Kijima's research interests are in systems-science-based approach to decision making and information. He has proposed a new paradigm called "poly-agent systems," which tries to deal with the complexity involved in decision-making situations with plural and autonomous decision makers. He is also interested in integrating hard and soft systems approaches to decision-making and management.

Kijima has authored some books and has published more than fifty papers in international journals. In 2006 he received a grant from the Japanese government on agent-based modelling and systems research.

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Klaus Krippendorff's research interests include social constructivist epistemology and second-order cybernetics, scientific discourse and its artifacts, mathematical foundations of cybernetics, systems theory, communication and information theories, structural models of qualitative data, and cyberspace, social science methodology, reliability analysis, conversational and discursive approaches to the construction of reality, emancipatory theory and critical scholarship, and human-centered design principles for the information age.

He introduced Krippendorff's alpha, a statistical measure for evaluating the reliability of data in view of their potential to support valid conclusions. He quantified cyberspace and, following Ross Ashby, established terrestrial limits of computation. He showed how metaphors can advance but also seriously entrap their users understanding, especially in complex systems. He takes conversation as the most efficient evolutionary process ever observed and is concerned with a recursive ethics that relates the human impulse to interactively design worlds (discourses, social structures, and technologies) to the viability of diverse communities living in them.

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Professor Lai received his PhD at Michigan State University, USA. He is currently the Honorary Professor at the Department of Industrial and Manufacturing Systems Engineering, University of Hong Kong, Hong Kong. Prior to his post, he was the Chair Professor of Management Science at the City University of Hong Kong. Before his academic appointment, he was a Senior Operational Research Analyst for Cathay Pacific Airways and an Area Manager on Marketing Information Systems for Union Carbide Eastern. Professor Lai's main areas of research interests are operations and supply chain management, financial and business risk analysis and modeling using computational intelligence. He is the editor-in-chief of the International Journal of Logistics and SCM Systems and International Journal of Operations Research. He is the Founding Chairman of the Hong Kong Operational Research Society of Hong Kong and currently the President of the Asia Association on Risk and Crises Management. In 2009, Professor Lai was the recipient of the Joon S. Moon Distinguished International Alumni Award of the Michigan State University and also appointed as the Chang Jiang Scholar Chair Professor by the Ministry of Education, China. In 2013, he has been selected as Fellow of the Asia Pacific Association of Industrial Engineering and Management Systems. In 2014, he was the recipient of the Civil and Environmental Engineering Distinguished Alumni Award, Michigan State University, USA. In 2017.

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Ervin Laszlo is a systems theorist and author.

Laszlo was among the first system's philosophers, being known for the theories of "General Evolution" and "The Macroshift." He also founded **the Club of Budapest**.

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Laszlo has been nominated twice for the Nobel Peace Prize, in 2004 and 2005, and he received the Goi Peace prize in 2001.

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Vladimir Lefebvre is a mathematical psychologist and researcher in the School of Social Sciences at the University of California at Irvine.

In 1965 Lefebvre created the theory of reflexive control, a mathematical approach to social psychology. He has also created equations to predict the large-scale consequences of individual actions.

Lefebvre has been awarded the Descartes Medal in Cognitive Studies in 2006 and Doctor Honoris Causa and the Golden Medal from the International Informatization Academy at the United Nations Moldova Branch in 2000.

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Loet Leydesdorff (Ph.D. Sociology, M.A. Philosophy, and M.Sc. Biochemistry) is Professor at the Amsterdam School of Communications Research (ASCoR) of the University of Amsterdam. He is Associate Faculty at the Science and Technology Policy Research Unit (SPRU) of the University of Sussex, Visiting Professor of the Institute of Scientific and Technical Information of China (ISTIC) in Beijing, Guest Professor at Zhejiang University in Hangzhou, and Visiting Fellow at the School of Management, Birkbeck, University of London. He has published extensively in systems theory, social network analysis, scientometrics, and the sociology of innovation (see at <http://www.leydesdorff.net/list.htm> or <http://scholar.google.com/citations?user=ygN9gNYAAAAJ&hl=en>).

With Henry Etzkowitz, he initiated a series of workshops, conferences, and special issues about the [Triple Helix of University-Industry-Government Relations](#). He received the Derek de Solla Price Award for Scientometrics and Informetrics in 2003 and held "The City of Lausanne" Honor Chair at the School of Economics, Université de Lausanne, in 2005. In 2007, he was Vice-President of the 8th International Conference on *Computing Anticipatory Systems* (CASYS'07, Liège). Since 2014, Clarivate/Thomson Reuters lists him as a highly-cited author at <https://clarivate.com/hcr/>

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Humberto Maturana is a [Chilean biologist](#). Many consider him a member of a group of [second-order cybernetics](#) theoreticians such as [Heinz von Foerster](#), [Gordon Pask](#), [Herbert Brün](#) and [Ernst von Glasersfeld](#). He is a professor of neuroscience at the University of Chile.

Maturana's research interest concerns concepts like cognition, autopoiesis, languaging, zero time cybernetics and structural determined systems. Maturana, along with [Francisco Varela](#) and Ricardo B. Uribe, is particularly known for creating the term "[autopoiesis](#)" about the self-generating, self-maintaining structure in [living systems](#), and concepts such as structural determinism and structure coupling. His work has been influential in many fields, mainly the field of systems thinking and cybernetics. Overall, his work is concerned with the biology of cognition

Maturana has authored several books and papers.

He was awarded the Norbert Wiener Memorial **Gold Medal** of WOSC in 2014.

https://en.wikipedia.org/wiki/Humberto_Maturana

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Prof. Moreno is active in the fields of bio-cybernetics and computational neuroscience mainly, including formal neural nets, brain dynamics, reticular processes, visual processing and knowledge representation. He is the founder of the Instituto Universitario de Ciencias y Tecnologías Cibernéticas at the University of Las Palmas, Spain, a platform for the scientific exchange. His influence has affected many researchers, practitioners and students. Prof. Moreno's scientific work started at MIT, where he was a research associate of the eminent neuro-cybernetician Warren McCulloch, one of the head-figures of cybernetics (Pitts-McCulloch neuron, redundancy of potential command, heterarchy of values). Later he cooperated with many outstanding members of the cybernetics community, with emphasis on mathematics, physics and biology, e.g. Caianiello, Ricciardi. He has been invited by various Spanish, European and American Universities. His teachings abroad cover more than 30 international Universities. At Obuda University, he is a honorary professor.

Moreno-Díaz is author or coauthor of about 135 research papers on neurocybernetics, retinal theory and natural and artificial vision. He supervised 22 PhD Theses on these topics and multimedia, presented in the Faculties of Mathematics, Physics and Informatics and in the ETS de Industrial Engineers and Telecommunication of Zaragoza, Madrid Politecnics, La Laguna and of Las Palmas de Gran Canaria; 21 of his these doctors are Full or Associate Professors in various Universities. He organized 18 International Congresses on Informatics, Computer Aided Systems Theory and Neurocybernetics. He is coeditor of 32 volumes on these subjects published by Alianza Editorial, Springer-Verlag, Hemisphere and The MIT Press. Since 1981 he is Correspondant of the Royal Academy de Ciencias Exactas, Físicas y Naturales of Spain and the Founder and ex-vicepresident of the Academia Canaria de Ciencias.

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Edgar Morin (Edgar Nahoum) is a French philosopher and sociologist who has been internationally recognized for his work on complexity and "complex thought," and his scholarly contributions to such diverse fields as media studies, politics, sociology, visual anthropology, ecology, education, systems biology, and beyond. He holds degrees in history, economics, and law.

Though less well known in the United States due to the limited availability of English translations of his over 60 books, Morin is renowned in the French speaking world, Europe, and Latin America.

Edgar Morin has authored more 50 books that were translated in 28 languages and 40 countries.

https://en.wikipedia.org/wiki/Edgar_Morin

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Matjaz MULEJ, with his Doctorates in Economics/Systems Theory and in Innovation Management, used to work at the University of Maribor, where he still works with doctoral students. He works also in other Slovene higher education institutions. He retired in 2001 as Professor Emeritus of Systems and Innovation Theory. For the recent 10 years he has applied systems theory also to **social responsibility** as personal and organizational attributes – ethics of responsibility, interdependence and requisite holism. He published more than 1.800 publications in over 40 countries (see: IZUM/Cobiss/Bibliographies, 08082). He was visiting professor at foreign universities for 15 semesters, mostly in US, including Cornell (as Fulbright scholar), also in Austria, China, Germany, Mexico, and gave talks in about 50 further universities around the world. He consulted to organizations in 6 countries about 500 times. He is author of the Dialectical Systems Theory (see: François, 2004, International Encyclopedia), Innovative Business Paradigm and Methods for transitional countries and enterprises; many millions of innovation results value are reported. He is a member of the European Academy of Sciences and Arts, Salzburg (2004), European Academy of Sciences and Humanities, Paris (2004), International Academy for Systems and Cybernetic Sciences, Vienna, now in France (2010; establishing former head, now vice-president). He was president of IFSR, president of the Slovene Systems Research Society (since 1991), head of the research unit of IRDO Institute for Development of Social Responsibility Under his impact University of Maribor became 'Sustainable and Socially Responsible University of Maribor' with an action program for 2014-2020. He was granted all available official awards for his work on non-technological innovations in Yugoslavia, Slovenia, Maribor and University of Maribor. In 2013-2016 he published and edited 9 books, 3 collections of articles (in Systems Research and Behavioral Science, Kybernetes, Systems Practice and Action Research) with more than 100 authors from 30 countries, and 4 conference proceedings, all about systemic behavior via social responsibility. His most recent award is HORUS platina award for 60 years of volunteering as a practice of social responsibility. In 2018 he coedited 6 books concerned with social responsibility, including *'Introduction into the political economy of the socially responsible society'* (in Slovene), which is the first on this topic globally.

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Karl H. Müller is the Director of the Steinbeis Transfer Centre New Cybernetics and senior researcher at the Faculty of Social Sciences of the University of Ljubljana. His main research interests range from issues in complex systems and complex modelling within the social sciences and from interdisciplinary analyses of innovation and risk processes in science, technology and society to the history and the current potential of inter- and transdisciplinary research as well as to the frontiers of second order cybernetics, second-order systems science and radical constructivism. He is particularly known for his 2005 work with J. Rogers Hollingsworth on "Advancing Socio-Economics: An Institutional Perspective"

His recent publications reflect these various interests, namely, (with Lučka Kajfež-Bogataj, Ivan Svetlik, Niko Toš (eds.)), *Modern RISC-Societies: Towards a New Paradigm of Societal Evolution* (Wien:edition echoraum, 2010), (together with Niko Toš), *Towards a New Kind of Social Science. Social Research in the Context of Science II and RISC-Societies* (Wien:edition echoraum, 2012), (with Alexander Riegler (eds.)), *Second-Order Science* (Special Issue of Constructivist Foundations, 1/10, 2014), (with Brina Malnar), *Surveys and Reflexivity. A Second-Order Study of the European Social Survey (ESS)* (Wien:edition echoraum, 2015), *New Cybernetics. The Revolution of Scientific Structures* (Wien:edition echoraum, 2016), and *Post-disciplinary Cybernetics. The Science of Reflecting on Reflections* (Wien:edition echoraum, to be published).

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Yoshiteru Nakamori is a Professor Emeritus of Japan Advanced Institute of Science and Technology. From April 2002 to March 2008, he served as the dean of the School of Knowledge Science at Japan Advanced Institute of Science and Technology.

Yoshiteru Nakamori is a past president of the International Society for Knowledge and Systems Sciences. His research interest includes the theory of knowledge creation systems, which integrates approaches in systems science, affective engineering, and knowledge management.

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Prof. Nakicenovic holds bachelors and masters degrees in economics and computer science from Princeton University, New Jersey, USA and the University of Vienna, where he also completed his Ph.D. He also holds Honoris Causa PhD degree in engineering from the Russian Academy of Sciences.

He is currently Deputy Director General and Deputy CEO of the International Institute for Applied Systems Analysis (IIASA). Until 2014, he was also Professor of Energy Economics at Vienna University of Technology, Austria, Europe.

He is a Member of the United Nations Secretary General Special Advisory 10-Member Group to support the Technology Facilitation Mechanism, Executive Director of The World in 2050 (TWI2050), Member of the Scientific Advisory Board of the *Potsdam Institute from Climate Impact Research* (PIK), Member of the Scientific Advisory Board of the *Fondazione Eni Enrico Mattei* (FEEM), Member of the Panel on Socio-economic Scenarios for Climate Change Impact and Response Assessments, Steering Committee Member of the Renewable Energy Policy Network for the 21st Century (REN21) and Member of OMV Advisory Group on Sustainability.

He is Editorial Board Member of the following journals: *Technological Forecasting and Social Change*; *Climate Policy*, *Institution of Civil Engineers*; *Current Opinion in Environmental Sustainability*; *Energy, Ecology and Environment*; *Energy Sector Management*; *Ecosystem Health and Sustainability*; *Environmental Innovation and Societal Transitions*; and *the Energy Strategy Reviews*.

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Constantin Virgil Negoita is Professor Emeritus at Hunter College in the Department of Computer Science. He has also been an editorial board member for several journals including *Economic Computation and Economic Cybernetics Studies and Research* and *Int. J. Advanced Intelligence Paradigms*.

Negoita's main research interests are fuzzy sets and systems. He was editor and founder first fuzzy sets and systems journal, *Fuzzy Sets and Systems*, with L.A. Zadeh and H.J. Zimmermann as well as author of the first textbook on fuzzy sets and systems, with D. Ralescu.

Negoita was honored as an Appointed Fellow with the International Fuzzy System Association in 2015. He was presented with a Doctor Honoris Causa from the University of Pitesti in 2000. He has also won the IEEE Award for New Technical Concepts in 1985.

Francisco PARRA-LUNA

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Francisco Parra-Luna is an academician who has been president of and/or founded many systems theory organizations such as the **Association Internationale des Sociologues de Langue Francaise**, the **Sociedad Espanola de Sistemas Generales**, and the **Instituto Univesitario de Recursos Humanos**. He is also a member of the editorial board of the journal *Systems Research and Behavioral Science*. Parra-Luna is the founder and was the first president of **the Sociocybernetics and Social Systems Theory group in the International Sociological Association**. Parra-Luna has authored 19 books and more than 50 articles. Parra-Luna has won several prizes and distinctions including first prize from the Fundación Rumasa in 1979, second prize from the Institute de Estudios Laborales in 1979, the Prize del Centro de Investigaciones Sociológicas in 1982, the national prize on "Marketing político" in 1983, and the national prize for "Martin Artajo" on Employment Politics in 1987. He also had a square in the town Villanueva de los Infantes, Spain dedicated to him in 2010.

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Jose Perez Rios is Professor of Business Organization at the University of Valladolid, Spain. His research is focused on the application of system dynamics and management cybernetics to the study of complex systems, and to the development of software tools which can facilitate the application of different systemic approaches as well as knowledge capturing, communications and information exchange. He has been the Technical Director of the HORIZONTE-2000 project, and Founder and Director of the IBERFORA Project (sponsored by the BSCH) at the University of Valladolid. He has been also responsible for the creation of the internet-based tool named "Navegador Colón" for the Spanish Foreign Ministry and of the VSMoD® software (to facilitate the application of the Organizational Cybernetics and the Viable System Model). Has also been Director of Area of International Relations at the University of Valladolid (2000-2006).

He has worked in multiple national and international research projects and has more than 80 publications in national and international journals and congresses, and five books, including "*Diseño y diagnóstico de organizaciones viables*" (Iberfora2000, 2008) and "*Design and Diagnosis for Sustainable Organizations. The Viable System Method*" (Springer, 2012). Honorary distinctions: "The Kybernetes Research Award" (2006) awarded by the World Organization of Systems and Cybernetics (WOSC). "Honorary HSSS Award as Distinguished Scientist" (2007) by the Hellenic Society for Systemic Studies (HSSS). Award as "Outstanding reviewer" for the journal *Kybernetes*. He is also a Fellow of the HSSS and member of the Board of Directors of the WOSC.

Franz PICHLER

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Franz Pichler learnt the profession of Telecommunication Technician at the School of Communication Technology, Graz, Austria (1950-1954). Thereafter, until 1964, he worked for the Austrian Post Office, as a Telecommunication Technician. External student, at the Realgymnasium Salzburg, he studied mathematics and physics at the University of Innsbrück. His PhD was about the theory of the Walsh-Fourier transformation. Then, research assistant at the chair of Mathematical Economics, he moved to the Graduate School for Social and Economic Sciences in Linz (later Johannes Kepler University), Chair for Applied Mathematics under Prof. Hans Knapp.

Guest scholarships at the University of Maryland, College Park, USA, and the National Physical Laboratory in England. In 1972 he got his habilitation in the field of Applied Mathematics and Mathematical Systems Theory. Already in the next year, 1973, he was appointed full professor for Systems Theory at the Johannes Kepler University, Linz, Austria. In 1975/6 and 1982/83 Pichler was invited as a guest professor to the State University of New York at Binghamton and 1992/93 to the University of Las Palmas, Spain. In the context of his professorship, the foci of his research were on Walsh functions, Mathematical Systems Theory and Cryptography.

Since his retirement in 2004, Pichler is continuing his research, mainly in Systems Theory and the History of Information Technology. This includes the editorship of the book series "Schriftenreihe für Geschichte der Naturwissenschaften und Technik" (series in history of science and technology).

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Larry Richards is Professor Emeritus of Management and Informatics at Indiana University East, retiring from a 32-year career in higher education administration in September 2016. Richards' interests have included the development and application of a constraint theoretic approach to policy formulation, robustness as a criterion for technology strategy, dialogic processes as a basis for social system design and cybernetics as a way of thinking in everyday life. In his first book on Constraint Theory, he proposed that, in addressing problems and issues in complex systems involving many participants, desires be treated as constraints rather than as goals. In research for NASA, he developed an approach for formulating policy on new space transportation systems when we know that technologies and political priorities will have changed in ways impossible to predict by the time a new system can be made operational. He has also proposed that (1) cybernetics be treated as a way of thinking about ways of thinking, making the way of thinking a choice rather than defaulting to the prevailing way, and (2) the cybernetician be treated as a craftsman in and with time. He is particularly interested in non-hierarchical forms of social organization and the knowledge structures that support them and in the shift in the formulation of the human attribute we call consciousness that seems necessary to accommodate a fully participative and dialogic society. Richards was awarded the Norbert Wiener Medal by the American Society for Cybernetics in 2007, and was made a Fellow by the American Society for Engineering Management in 2002. In 2015, he received the award as Outstanding Reviewer for the journal *Kybernetes*. Richards has published over 100 books, monographs, journal/magazine articles, and conference papers.

https://en.wikipedia.org/wiki/Larry_Richards

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Markus Schwaninger, Emeritus Professor of Management, at the University of St. Gallen, Switzerland, is working on international, transdisciplinary research projects and supervision of PhD students.

His research is focused on Systems Theory and Cybernetics applied to the management of complex social systems, namely private and public organizations (e.g. strategy & integrative management, organization design, management systems, organizational transformation and learning, sustainability issues), methodological emphasis on Organizational Cybernetics & System Dynamics, extensive track of transdisciplinary research projects; long-term effort to build bridges between quantitative and qualitative methods in both, basic and applied research.

He was a visiting professor at Fundação Getúlio Vargas/São Paulo School of Management, Brazil and Universidad de los Andes, Bogotá, Colombia, also. Visiting Scholar at the Massachusetts Institute of Technology, Cambridge and Columbia University, New York (U.S.A.), the University of British Columbia Vancouver (Canada), Instituto de las Ciencias y Tecnologías Cibernéticas, Universidad de las Palmas de Gran Canaria (Spain). He had Guest lectures and seminars at universities worldwide.

Member of the Board of Directors of the World Organization of Systems and Cybernetics, Managing Editor of the *System Dynamics Review*, he authored roughly **250 publications** in 6 languages, including the book "Intelligent Organizations" published with Springer.

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Bernard Scott is Gordon Pask Professor of Sociocybernetics at the International Center for Sociocybernetics Studies. He is also a member of the editorial advisory boards of the journals *Kybernetes*, *Cybernetics and Human Knowing*, *Campus-Wide Information Systems* and *Constructivist Foundations*. While in school Scott worked with his supervisor, Gordon Pask, to develop “conversation theory” and associated cybernetic models of learning and teaching, build interactive learning environments and carry out extensive empirical studies of how humans learn.

Scott has authored over 130 publications.

Scott is a fellow and founder member of the U.K.’s Cybernetics Society, an Associate Fellow of the British Psychological Society, and a Fellow of the American Society for Cybernetics. The American Society for Cybernetics also awarded him the McCulloch Award in 2013.

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Georges SOROS

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George Soros is a business magnate, investor, philanthropist, political activist, and author. He is also the founder and manager of Soros Fund Management and the Open Society Foundation, as well as the founder of the Central European University.

Soros has been a critic of the classical philosophy of science as it is often applied in the social sciences. He is the inventor of reflexivity theory as an alternative to equilibrium theory in economics and of multi-disciplinary methods for analyzing social systems.

He has authored many books and articles.

The *Financial Times* has selected George Soros as its **Person of the Year 2018**. The Financial Times typically chooses somebody based on their achievements. This year, their selection also reflects the values Mr. Soros and **Open Society support**.

https://en.wikipedia.org/wiki/George_Soros

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Robert Trappl is an **Austrian** scientist and head of the **Austrian Research Institute for Artificial Intelligence** in Vienna, which was founded in 1984.

He is known for his work in the field of **cybernetics** and **artificial intelligence**.

Trappl is also editor-in-chief of the scientific journals *Applied Artificial Intelligence* and *Cybernetics and Systems*, and a member of the editorial boards of several other journals.

His main research interest had always been the human mind since it can be analyzed by three distinct methods the results of which eventually have to converge: 1. by introspection, 2. by analyzing the behavior of a person, and 3. by studying the human brain.

His main research focus is the investigation of the potential contributions of Artificial Intelligence methods to the avoidance of outbreaks of wars or in ending them, and the development of intelligent and emotional personality agents both for synthetic actors in films, television and interactive media, with a view on their consequences for theories on cognition and emotion.

Trappl has published over 180 articles and co-authored 34 books.

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Professor Dr Murray Turoff <http://web.njit.edu/~turoff>, from the Ying Wu College of Computing of the New Jersey Institute of Technology <http://is.njit.edu/turoff> was a pioneer, the “father of computer conferencing”; he created the first computer conferencing system for the U.S. Office of Emergency Preparedness in 1971. The system he developed then was the Electronic Information Exchange System (EIES). He co-founded the Information Systems for Crisis Response and Management community <http://iscram.org> and designed the Emergency Management Information System And Reference Index (EMISARI), the first group communication-oriented crisis management system in the world.

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Stuart A. Umpleby is professor emeritus in the Department of Management at the George Washington University in Washington, DC. He received degrees in engineering, political science, and communications from the University of Illinois in Urbana-Champaign. Umpleby has published articles in a variety of journals <https://blogs.gwu.edu/umpleby/recent-papers/>. He is a past president of the American Society for Cybernetics and Associate Editor of the journal *Cybernetics and Systems*. Umpleby has received research grants from the National Science Foundation, the Charles F. Kettering Foundation, the Charles Stewart Mott Foundation, the Nathan Cummings Foundation, the U.S. Department of State's Bureau of Educational and Cultural Affairs and the Central Asia Research Initiative. He has consulted with the World Bank, with government agencies in the U.S. and Canada and with corporations in the U.S., Europe, Japan, and China. He has been a guest scholar at the Wharton School of the University of Pennsylvania, the International Institute for Applied Systems Analysis in Laxenburg, Austria, the University of Vienna, the Institute for Advanced Studies in Vienna and the University of St. Gallen in St. Gallen, Switzerland. Between 1981 and 1988 Umpleby was the American coordinator of a series of meetings between American and Russian scientists to discuss the foundations of cybernetics and systems theory. His interest in the transitions in the post-communist countries has resulted in his presenting lectures at various institutes of the Academies of Science of Russia, Ukraine, Poland, Hungary, and Bulgaria. He is currently president of the Executive Committee of the International Academy for Systems and Cybernetic Sciences.

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https://en.wikipedia.org/wiki/Stuart_Umpleby

Robert VALLÉE

The late Robert Vallée was professor emeritus at the Université Paris-Nord, France, Europe. He was also President of the World Organization of Systems and Cybernetics (WOSC) as well as Honorary President of the French Association of Systemics and Cybernetics (AFSCET). He was a member of the editorial boards of *Kybernetes*, *Economies et Sociétés*, the *International Journal for Biological Systems, Cybernetics and Human Knowing*, *Grundlagenstudien aus Kybernetik und Geisteswissenschaft*, *Robotica*, and *Res-Systemica*.

Vallée was interested in information theory and has described a cybernetic creature covering the whole surface of the globe with its communication net. He was the founder of the Cercle d'Études Cybernétiques. He has introduced the concepts of observation operator, inverse transfer of structures, epistemo-praxiology, epsilon distribution, and the internal time of a system.

Robert Vallée has authored more than 150 papers.

He was a founder of IASCYS.

https://en.wikipedia.org/wiki/Robert_Vallée

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Ernst von GLASERFELD

The late Ernst von Glaserfeld was an Emeritus Professor of Psychology at the University of Georgia, a research associate at the Scientific Reasoning Research Institute, and an adjunct professor in the Department of Psychology at the University of Massachusetts. He was also a member of the Board of Trustees of the American Society of Cybernetics (ASC) and the Scientific Board of the Instituto Piaget.

Von Glaserfeld coined the term radical constructivism and was a proponent of the "Ecology of Mind." He was also the creator of the first symbols of the lexigram, a device used in the field of animal language.

Von Glaserfeld received the McCulloch Memorial Award from the American Society of Cybernetics in 1991. He received an honorary doctorate of the University of Klagenfurt in 1997 and from the University of Innsbruck in 2008. He also received a Reconnaissance du Mérite scientifique from the University of Québec (Canada) in 2002. In 2005 he was awarded The Wiener Gold Medal of the American Society for Cybernetics and the Gregory Bateson-award of the Heidelberg Institute for Systemic Research. In 2007 he was awarded the Austrian Cross of Honour for Science and Art and the journal *Constructivist Foundations* honored him on his 90th birthday with a Festschrift Glasersfeld. He was presented with an Honorary Medal of the City of Vienna (Austria) in 2009.

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Shouyang Wang is a Changjiang distinguished professor and vice president of Academy of Mathematics and Systems Science, Chinese Academy of Science (CAS) in Beijing, chief economist and founding director of the Center for Forecasting Science, CAS, and Dean of School of Economics and Management, University of Chinese Academy of Sciences.

He was the president of International Society of Knowledge and Systems Science, and is the president of China Society of Systems Engineering, a vice president of the Chinese Academy of Management and an advisor of several ministries of China. His honours include Research Fellow, Dutch Royal Acad. of Sciences, 1987-88; Croucher Foundation Fellow, Hong Kong, 1993; China Sci and Tech Prize for Young Scientists, 1994; Japan Sci. Promotion Soc. Fellow, 1994; Fudan Premier Prize of Management, 2008; Academician, International Academy of Systems and Cybernetics Science, Wien, 2010, Fellow of The World Academy of Sciences and Scott Award, Moskow, 2014..

He has made outstanding achievements in the area of decision analysis, financial risk management, economic monitoring and early warning decision support system, R&D of supply chain collaborative virtual business innovation service platform, systems engineering theory methodology and the development of the discipline. He has published 35 monographs and more than 330 papers in international academic journals, in which more than 300 papers are indexed by SCI/SSCI with over 3800 citations by other SCI/SSCI papers.

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Kevin Warwick is an Emeritus Professor at both [Reading](#) and [Coventry](#) Universities, UK and during 2004 was Senior Beckman Fellow at the [University of Illinois at Urbana- Champaign](#), USA. He is an Active Member of the [European Academy of Sciences and Arts](#) since 2014, a Fellow of the [City & Guilds of London Institute](#) since 1988, a Chartered Engineer and a Fellow of the [Institution of Engineering and Technology](#) since 1985. He has received a number of awards including: [Future of Health Technology award](#), MIT, in 2000, [IET Mountbatten medal](#) in 2008 and the [Ellison-Cliffe medal](#) from the [Royal Society of Medicine](#) in 2011. He has 9 honorary doctorates and in 2000 presented the [Royal Institution Christmas Lectures](#). Kevin's experiments into implant technology led to him being featured as the cover story on the US magazine, '[Wired](#)'. He achieved the world's first direct electronic communication between two human nervous systems, the basis for thought communication. Another project extended human sensory input to include ultrasonics. He also linked his nervous system with the internet in order to control a robot hand directly from his neural signals, across the Atlantic Ocean. In another project, working with surgeons at the John Radcliffe hospital, Oxford, he has pioneered the use of a new deep brain stimulation device, based on Artificial Intelligence, to assist in the treatment of Parkinson's Disease. Currently, his research interests are focused on biomedical systems, artificial intelligence and cyborgs.

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Jennifer Wilby is a professor of management systems at the Hull University Business School. She sits on the board for the International Society for the Systems Sciences, The United Kingdom Systems Society, and The UK Complexity Society. She is also editor for the University of Hull's Research Memorandum Series, the Conference proceedings of and the *Bulletin* of the International Society for the Systems Sciences, and *Systemic Practice and Action Research*.

Wilby's fields of expertise are general systems theory, hierarch theory, critical systems thinking and practice, decision making and modeling, systematic reviews, and the methodology of critical review.

Wilby has about 70 publications including 8 monographs and 26 journal articles.

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Stephen Wolfram is the creator of **Mathematica, WolframAlpha and the Wolfram Language**, and the founder of Wolfram Research. Pioneer in the development and application of computational thinking, he has been responsible for many **discoveries, inventions or innovations in science, technology & business**.

Wolfram has been involved with education for many years, founding the Wolfram Summer School in 2003, and in 2015 publishing *An Elementary Introduction to the Wolfram Language* to introduce young students and others to modern computational thinking. Long interested in history and in people and their trajectories, Wolfram published a collection of essays entitled *Idea Makers* in 2016 giving his personal perspectives on the lives and ideas of a variety of notable people. Wolfram has been president and CEO of Wolfram Research since its founding in 1987. In addition to his corporate leadership, Wolfram is deeply involved in the development of the company's technology, personally overseeing the functional design of the company's core products on a daily basis, and constantly introducing new ideas and directions. Wolfram is a sought-after advisor, mentor and speaker in corporate, entrepreneurial and educational settings. He and his wife have four children and live in Concord, Massachusetts (USA).

https://fr.wikipedia.org/wiki/Stephen_Wolfram

https://en.wikipedia.org/wiki/Stephen_Wolfram

<https://www.stephenwolfram.com/>

<http://blog.wolfram.com/?source=wolframalphablog>

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Jiuping Xu is a professor of Systems Sciences and Engineering, Management Science, and Engineering Management at Sichuan University.

Xu's research interests include decision under uncertainty; systems sciences and engineering; management science; engineering management; system comprehensive integration theory, technology, and application for circular economy; systems engineering of post-disaster reconstruction; force analysis; optimized design of well completion; test of tubular strings; and low carbon technology and management.

Xu has authored more than 40 books and 400 journal papers.

Xu was awarded the International Federation of Operations Research Societies prize for Development in 1996, the China Youth Prize of Science and Technology in 2004, and the Distinguished Professor of "Chang Jiang Scholars Program" by the Ministry of Education of the People's Republic of China in 2009.

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Xinmin Yang is Vice President and Professor at the [Chongqing Normal University](#). He is also an Adjunct Professor at [the University of British Columbia](#) in Vancouver, Canada, and the Curtin University in Perth, Australia. Yang also serves as the Editor-in-Chief of the [Pacific Journal of Optimization](#); as an Associate Editor for the [Journal of Optimization Theory and Applications](#), and [System Engineering: Theory and Practice](#); and as an editorial board member for the [Journal of Industrial and Management Optimization](#), the [Journal of Systems Science and Information](#), and the [Journal of System Science and Mathematical Sciences](#). He also serves as the Director of the [Key Lab of Optimization and Cybernetic Sciences](#) within the Ministry of Education for the People's Republic of China. Yang is the Vice President of the [Operations Research Society of China](#), the [System Engineering Society of China](#), the [Chinese Mathematical Society](#), and the [China Society for Industrial and Applied Mathematics](#).

Xinmin Yang has been working with the Chongqing municipal development and reform commission since 1989 to update directions of industrial development by virtue of multi-objective utility theory in systems science. By using an iterative weighting method, Yang constructed a constrained multi-objective optimization model to optimize more than 10 industries in Chongqing, such as the chemical industry, the automotive and motorcycle industry, tourism, the steel industry, the automation instrumentation industry, the pharmaceutical industry, and the real estate industry. For this work, Yang was selected as a member of the committee of advisors on science and technology of the Chongqing government. He was also appointed an economic consultant of the Chongqing government from 2008 to 2014. Yang has published 164 papers in system science journals and 67 in other international journals.

Yang was awarded The First Class Prize for Natural Sciences of the Ministry of Education of P.R. China, The First Class Prize for Scientific and Technological Progress of Chongqing and The First Class Prize for Natural Sciences of Chongqing. He was elected Vice President for the Chinese Mathematical Society, the System Engineering Society of China, the Operations Research Society of China, and the China Society for Industrial and Applied Mathematics. He was also appointed a National Outstanding Talent in Professional and Technical of China (2014), and a National Excellent Science and Technology Worker of China (2012). He was presented with a National Science and Technology Award for Youth of China (2001) and a National Outstanding Expert in Science and Technology of China (1996).

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He has authored 2 books and more than 110 journal papers. For details, please refer to:

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Rainer Zimmermann is a professor of philosophy at the Munich University of Applied Sciences, now retired and living in Berlin (Germany), where he teaches at the University of Applied Technology and Economics. He is also scientific director of the institute of design science Munich e.V., member of the Leibniz society of the sciences at Berlin, and member of the UTI group.

Zimmermann's expertise are Transcendental Materialism, Complexity Science, Theory of Emergent Systems, and Philosophy of Information.

He has authored and edited about 30 monographs and published about 350 peer-reviewed papers.

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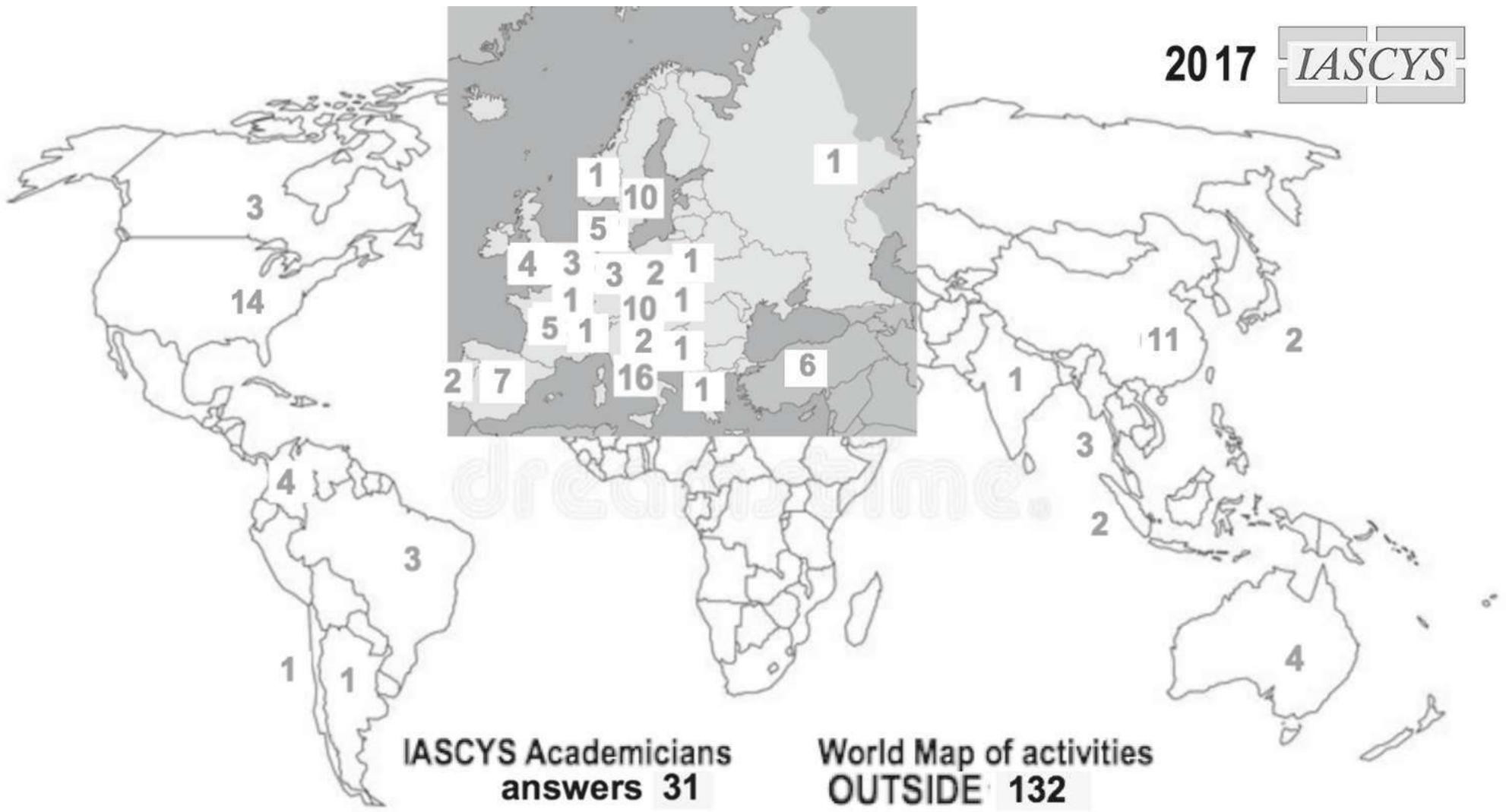
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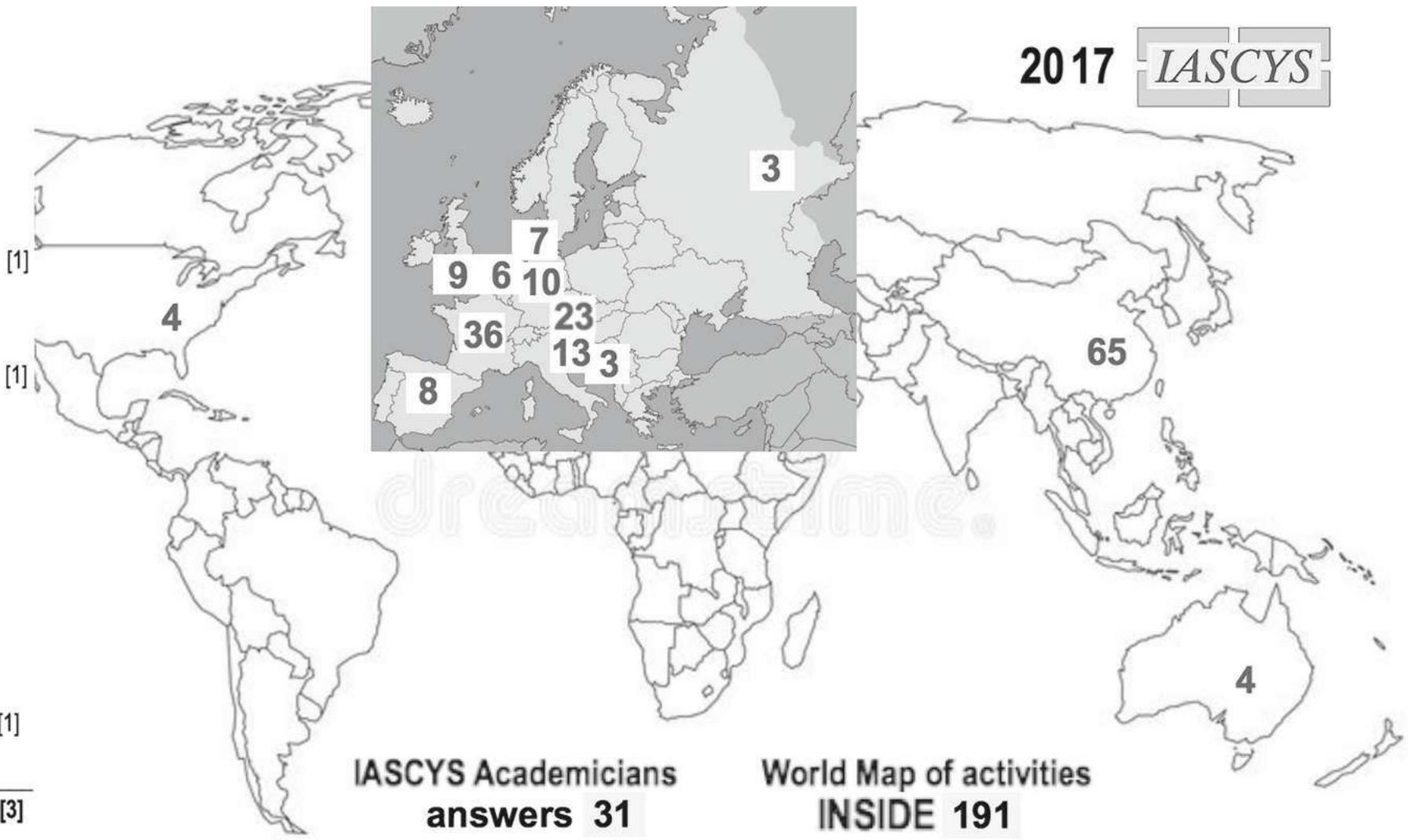


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World Map of activities OUTSIDE 132 activities number by country

Argentina	1	
Australia	2	
Austria	4	
Belgium	1	
Canada	1	
Chile	1	
Denmark	1	
France	3	[1]
Germany	1	
Hungary	1	
Italy	1	
Ireland	1	[1]
Japan	2	
Macedonia	1	
Netherlands	2	
Poland	1	
PR China	11	
Romania	1	
Russia	2	
Slovenia	1	
Spain	3	
Sweden	1	
Switzerland	1	
UK	4	[1]
USA	6	

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**World Map of activities
INSIDE 191
activities number by country**

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PREMIO internacional Charles FRANÇOIS
PRIX international Charles FRANÇOIS



international PRIZE Charles FRANÇOIS

A SYSTEMIC VISION OF THE CRISES
From optimization to change strategy?

10th congress of the European Union for Systemics
15-16-17/10/2018, Brussels, Belgium

gold medal



Julio LABORDE
Chile



Tjorven HARMSSEN
Germany

silver medal



Daniela TERRILE
Italy

silver medal



Mick ASHBY
Germany

silver medal



bronze medal

Charles François