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IASCYS

**The International
Academy
for Systems and
Cybernetic Sciences**

last update: 2016, December 8th

The International Academy for Systems and Cybernetic Sciences



<http://www.iascys.org>

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History Founded by The International Federation for Systems Research IFSR
Constitution approved 7 Apr 2010, Vienna (Austria).
Registered as independent NGO in France on 14 July 2016
(esigelec, cisee-irseem, Madrillet technopole, Rouen)

Aims *Create an international, multi-cultural, multi-linguistic, trans-disciplinary network, of educators, teachers, researchers and managers in systems science, systemics and cybernetics. The task of this experts network is to set up educational, broadcasting and research actions, at any level and for every people, to promote the scientific holistic approach, and particularly systems science, systemics and cybernetics.*

Develop innovative research topics and promote the establishment of collaborative research networks in systemics and cybernetics; support young researchers in the field; promote international networks for under-graduate and post-graduate education on systemics and cybernetics.

Structure General Assembly; Executive Committee.
Multilingualism English, French, German, Mandarin Chinese, Russian, Spanish
Staff 45 , voluntary.
Finance No budget.

NGO Relations Links with:

- European Meeting on Cybernetics and Systems Research EMCSR
- Institute of Electrical and Electronics Engineers IEEE
- International Council on Systems Engineering INCOSE
- International Federation for Systems Research IFSR
- Union Européenne de Systématique UES-EUS
- World Complexity Science Academy WCSA
- World Organisation of Systems and Cybernetics WOSC

Activities Events/meetings.

Publications proceedings, books, online papers, presentations, and reports.

Members in 21 countries: Argentina, Australia, Austria, Belgium, Canada, Chile, China, France, Germany, Hungary, Ireland, Italy, Japan, Netherlands, Poland, Romania, Russia, Slovenia, Spain, UK, USA.

19 October 2016

The International Academy for SYSTEMS and CYBERNETIC SCIENCES

2016 yearbook

The International Academy for SYSTEMS and CYBERNETIC SCIENCES



pictures by alphabetical order



The International Academy for Systems & CYbernetic Sciences

The Academicians (2016-10-28*) -alphabetical order-

Mary Catherine **BATESON** (USA)
Ockert J. H. **BOSCH** (Australia), **Vice-President**
Pierre **BRICAGE** (France), **Secretary General**
Pille **BUNNELL** (Canada)
Antonio **CASELLES MONCHO** (Spain)
Guangya **CHEN** (China)
Hanfu **CHEN** (China)
Jian **CHEN** (China)
C.L. Philip **CHEN** (China)
T.C., Edwin **CHENG** (China)
Gerhard **CHROUST** (Austria)
Gerard de **ZEEUW** (Netherlands)
Charles **FRANÇOIS** (Belgium)
Ranulph **GLANVILLE** (Britain) late Vice-President
Jifa **GU** (China), **Vice-President**
Enrique **HERRSCHER** (Argentina)

Wolfgang **HÖFKIRCHNER** (Austria)
Raymond L. **ISON** (Australia)
Michael C. **JACKSON** (Britain)
Louis H. **KAUFFMAN** (USA)
Kyoichi J. **KUJIMA** (Japan)
Helena **KNYAZEVA** (Russia)
Klaus **KRIPPENDORFF** (USA)
Ervin **LASZLO** (Italia)
Vladimir **LEFEBVRE** (Russia)
Humberto **MATURANA** (Chile)
Edgar **MORIN** (France)
Matjaz **MULEJ** (Slovenia), **Vice-President**
Karl H. **MÜLLER** (Austria)
Yoshiteru **NAKAMORI** (Japan)
Constantin Virgil **NEGOITA** (Romania)
Francisco **PARRA-LUNA** (Spain)

Laurence D. **RICHARDS** (America)
Bernard **SCOTT** (Britain)
George **SOROS** (Hungary)
Robert **TRAPPL** (Austria), **Honorary President**
Stuart **UMPLEBY** (USA), **President**
Robert **WALLÉE** (France)
Ernst Von **GLASERSFELD** (Ireland)
Shouyang **WANG** (China)
Andrzej P. **WIERZBICKI** (Poland)
Jennifer **WILBY** (UK)
Jiuping **XU** (China)
Xinmin **YANG** (China)
Ji-Feng **ZHANG** (China)
Rainer E. **ZIMMERMANN** (Germany)



➔ **46**
(2016-12-16)

Management 3
Business Administration 1
Decision 2
Design 2
Economy 2

Engineering 9

Applied Mathematics 1
Cybernetics 3
Expert Systems 1
Mathematics 2
Systems Science 1

8

Artificial Intelligence 1
Information 2
Innovation 1
Neuroscience 1

5

Constructivism 1
Education 2
Knowledge Science 1
Philosophy 3

7

Anthropology 1
Biology 1
Ecology 2
Sociology 3

7

10





Intentions

Two IFSR board sessions -and particularly the IFSR Board session on 26 March 2008 in Vienna, Austria-, several Executive Committee (EC) of the IASCYS sessions (mostly by e-mail), and many discussions with many members of IFSR member associations around the world, and finally the stand of the first General Assembly (GA1) at Chengdu in October 2010 helped us to the official IASCYS establishment with - the statutes of the Academy, - the new criteria of recruitment of the Academicians, - the ethical point of views of the Academicians during the first GA1 discussions.

→ The 2 first major missions of the IASCYS are, through the co-ordination of the actions of the IFSR member associations:

- to create a basis of an internationally accepted frame-work curriculum in systemics and cybernetics,
- to create an auditing process aimed at validation and promotion of education in systemics and cybernetics.



**The International
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The International Academy for SYSTEMS and CYBERNETIC SCIENCES

Mary Catherine BATESON

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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@seggroup.de

Ockert Bosch is currently the Director of Systems Modeling and a Consortial Partner for Systemic Excellence Group. He is also a professor of Systems Design and Complexity Management at the University of Adelaide, and is the director for both Think2Impact and SysPrac Pty Ltd.

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 the formation of the Alliance for Systems Design and Complexity Management at the University of Adelaide. In this position he has helped the MBA program to become a unique systems based MBA – from a collection of courses to a “system” of interconnected courses. His research has grown into a large program addressing three major leverage points for changing the way that people think: Evolutionary Learning Laboratories, “Starting with the Young” and Systems Education.

Bosch has contributed to several books as well as over 70 journal articles since 2003.

Bosch has received a Certificate of Merit from the Vietnamese Government for Contributions to Integrated Governance and diffusing systems thinking in Vietnamese society 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, as an adjunct professor to Flinders University and as a specialist professor to 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 is the President of the International Society for the Systems Sciences (ISSS) (2016/17) as well as Vice-President of the International Academy for Cybernetics and Systems Sciences, the ISSS Systems Education and Communication Committee, the ISSS Conferences and Membership Committee. He also serves or has served on the board for the ISSS, the Business Systems Laboratory in Italy the Centre for Native Floriculture, the Noosa Biosphere, the University of Queensland, the Agricultural Production Systems Research Unit, and the CRC Tropical Savannas.

notices by alphabetical order

2016 yearbook

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Pierre BRICAGE

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Pierre Bricage, retired adjunct professor of Biology and Health and Social Sciences Engineering at the Université de Pau et des Pays de l'Adour, France, has made contributions in the fields of biology and ecology through teaching and researching subjects such as biological rhythms and physiology. He has researched the biochemical, ecological and genetic aspects of plant enzymes and pigments, focusing on the sustainable management of natural resources, environmental education, systems theories and applied micro-informatics. He has also contributed to the fields of engineering, technology and informatics. His work on biotechnology includes patents, co-contributions of bacterial strains, chemicals, quality control methodology and software. He has led training programs on governance, educative information and communication numeric technology. His contribution to the field of health engineering includes an AIDS curative vaccine methodology and a cancer curative vaccine methodology. In the field of societal engineering, he has researched topics such as associative governance, anthro-politics, territorial system governance, and systems evolution. Pierre Bricage has written more than 250 works in over 10 countries.

He has been appointed the Vice-President of the French Association of Systemics and Cybernetics (AFSCET) which is a member of the International Federation for Systems Research. Past deputy Secretary General of UES-EUS, Director of the World Organisation of Systems and Cybernetics, he currently serves as the Secretary General of the IASCYS Executive Committee.

<http://armsada.eu>

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

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.

Antonio CASELLES

Antonio Caselles has been the Vice President of the “Sociedad Española de Sistemas Generales” (SESGE), 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 SESGE.

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*](#).

<http://www.uv.es/caselles/>

Guang-Ya CHEN

Guang-Ya Chen is a professor of systems science at the Academia Sinica in Beijing. Chen is also the Editor-in-Chief of *Systems Engineering Theory and Practices* and the Associate Editor of *Acta Mathematica Scientia* and of the *Journal of Optimization Theory and Applications*.

Chen’s research interests include multi-objective optimization, vector variational inequality, and network equilibrium theory and applications.

In 1995 Guang-Ya Chen was awarded second place and in 2001 took home first place for the Natural Science Prize of Chinese Academy of Sciences. In 2000 Chen was awarded the Institute for Scientific Information Citation Classic Award.

Guang-Ya Chen has published in several mathematical journals including *Lecture Notes in Economics and Mathematical Systems*, the *Journal of Mathematical Analysis and Applications*, the *Journal of Optimization Theory and Applications*, and *Mathematical Methods of Operations Research*.

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Han-Fu CHEN

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*.

Han-Fu Chen works in the fields of automation and systems control engineering. His research interests include system identification, adaptive control, stochastic approximation and recursive estimation.

Han-Fu Chen has been a visiting professor at several universities in Canada, the United States, Australia, Japan and more.

Han-Fu Chen has authored or co-authored more than 200 journal papers and several books.

Jian CHEN

Jian Chen is a professor at Tsinghua University in the School of Economics and Management. He is also the Director of the Research Center for Contemporary Management.

Jian Chen serves at the Chairman of the Service Systems and Organizations Technical Committee of IEEE Systems Man and Cybernetics Society. He is the Vice President of both the Systems Engineering Society of China and the China Society of Optimization and Overall Planning. He is also a member of the Standing Committee for the China Information Industry Association.

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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C. L. Philip CHEN

Philip Chen is the Dean and Chair Professor on the faculty of science and technology at the University of Macau. He is also currently the Senior Past President of the IEEE Systems, Man, and Cybernetics Society as well as the Editor-in-Chief of their publication *IEEE Transactions on Systems, Man, and Cybernetics: Systems*. Chen is the Chair of the technical committee on Economic, Business, and Financial Systems for the International Federation of Automatic Control.

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.

Tai Chiu Edwin CHENG

dwin.cheng@polyu.edu.hk

Tai Chiu Edwin Cheng is Dean of the Faculty of Business, Fung Yiu King-Wing Hang Bank Professor in Business Administration, and Chair Professor of Management at The Hong Kong Polytechnic University.

He works in the field of Systems and Cybernetics Sciences applying the field’s methodologies to address business and management issues. His research contributions are in the areas of systems engineering, applied optimization, operations research, and scheduling science.

He has published over 600 papers 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 2016.

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 also was presented with the Education Leadership Award by the World Education Congress of CMO Asia in 2014.

<http://www.lms.polyu.edu.hk/en/people/academic-staff>
<https://scholar.google.com/citations?hl=en&user=1zcpypQAAAAJ>

Gerhard CHROUST

Gerhard Chroust is an Austrian systems scientist and Professor Emeritus for Systems Engineering and Automation at the Johannes Kepler University of Linz, Austria.

Chroust is the Secretary General of the International Federation for Systems Research (IFSR) and Board Member of the Austrian Computer Society (OCG). He is an Honorary Member of the Austrian Society for Informatics (ÖGI) and of the Bertalanffy Center for Study of Systems Sciences (BCSSS).

Chroust is an authority on formal definition of programming languages, system development processes, software quality standards and process assessment, and impacts of cultural differences on system development. His current key research areas are Human Aspects, Cultural Differences and Systemic Aspects of System Development and Disaster Management, and on Representation and Enactment of Software Process Models.

From 1966 to 1991 Chroust worked at the IBM Laboratory Vienna. From 1992 until 2007 he was tenured Professor for 'Systems Engineering and Automation' at the Kepler University of Linz.

He has published 10 authored books, edited approx. 45 proceedings, written approx. 220 scientific publications and approx. 300 other publications.

Chroust is bearer of the Silver Medal of Honor of Upper Austria.

website: <http://www.gerhard-chroust.at>

Gerard de ZEEUW

Gerard de Zeeuw is currently a visiting Professor of Architectural Design Research at the Catholic University of Leuven and an Emeritus Professor of mathematical modeling of complex social systems at the University of Amsterdam. He is a founding member of the Board of the International Federation for Systems Research and the Board of the Systeemgroep Nederland. De Zeeuw serves on the Editorial Board or is an Associate Editor or Editor of several journals including *Systems Research and Behavioural Science*, *Systemica*, *Tijdschrift Sociale Interventie*, *Systemexico*, and the *Journal of Research Practice*.

De Zeeuw's current project is Project Mathesis, a Dutch national computer system to support teaching in mathematics and other topics.

His research has focused on social competence and second order organizational research.

De Zeeuw has authored 12 books and more than 150 other publications.

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

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Charles FRANÇOIS

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

Ranulph Glanville was a freelance researcher and theoretician in both architecture and cybernetics. He was also president of the American Society for Cybernetics 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 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.

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

Jifa GU

Jifa Gu is a professor of operations research and systems engineering at the Institute of Systems Science, within the Academy of Mathematics and System Sciences at the Chinese Academy of Sciences.

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.

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

Enrique HERRSCHER

Enrique Herrscher is an *ad vitam* honorary Professor at the University of Buenos Aires and a visiting professor at several other Argentine universities. He is also adjunct chair of the Special Integration Group for Systems Applications to Business and Industry at the International Society for the Systems Sciences.

In 1966 Herrscher was the Argentine representative at the 9th World Accounting Congress in Paris, France.

He is a founding member and former Vice President of the Latin American Association of Systemics. Herrscher has authored 10 books and over 100 papers.

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

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

Wolfgang HOFKIRCHNER

Wolfgang Hofkirchner is an Associate Professor at the Vienna University of Technology. He sits on the board of the Austrian Computer Society, the Science of Information Institute, the Bertalanffy Center for the Study of Systems Science, the Unified Theory of Information Research Group, and the Foundations of Information Science. He is also an editor for *Selbstorganisation sozialer Prozesse*, *tripleC*, and the book series *Exploring Unity Through Diversity*.

Hofkirchner's fields of expertise are Critical Information Society Theory, Critical Design Theory, Critical Social Systems Theory, Evolutionary Systems Theory, Unified Theory of Information, Systems Philosophy, and Social Philosophy. He has worked on creating a framework of transdisciplinary scientific thought, consisting of the transcendence of science towards society, the transcendence of disciplinary domains, and the transcendence of methods.

Hofkirchner has authored 10 monographs, 26 edited volumes or special issues, 54 peer-reviewed journal articles and over 100 articles in conference proceedings or edited volumes and other scientific publications.

Hofkirchner has been appointed to the Academic Council of the Multiversidad Mundo Real Edgar Morin and the Leibniz-Sozietät der Wissenschaften zu Berlin.

Raymond L. ISON

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Raymond Ison is a professor of systems at The Open University UK, Milton Keynes. He is also Vice President of the International Federation for Systems Research, a Trustee for the American Society of Cybernetics, and Director of the World Organisation of Systems and Cybernetics.

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. Ison is the author, co-author or editor of six books, nine journal special editions, 37 book chapters, and 137 refereed papers.

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

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Michael C. JACKSON

m.c.jackson@hull.ac.uk

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.

Professor Jackson is a past President of the UK Systems Society, the International Federation for Systems Research and the International Society for the Systems Sciences. He has also served on the Council of the Operational Research Society. He is a Fellow of the British Computer Society, the Chartered Management Institute, The Cybernetic Society and the Operational Research Society.

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.

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

Louis H. KAUFMAN

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.

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

Kyoichi J. KIJIMA

Kyoichi Jim Kijima is a Japanese [systems scientist](#) and professor of Decision Systems Science at the [Tokyo Institute of Technology](#).

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.

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

Helena KNYAZEVA

helena_knyazeva@mail.ru

Helena Knyazeva is a professor at the National Research University Higher School of Economics. She sits on the board of the Bertalanffy Center for the Study of Systems Science, the Association of Complex Thinking, the German Society of Complex Systems and Nonlinear Dynamics and the Russian Philosophical Society. Knyazeva is also an editor for *Ludus complexus: Revista Multiversitaria de complejidad*, *Praxema: Journal of Visual Semiotics*, *The Complex Systems: Interdisciplinary Scientific Journal*, and *Exploring Unity through Diversity*.

Knyazeva's fields of expertise include philosophy of complexity, synergetics, cognitive complexity, theory of innovations, and futures studies.

Helena Knyazeva has authored about 450 publications, including 10 monographs and 21 peer-reviewed journal articles.

She has been appointed to the Academic Council of the Multiversidad Mundo Real Edgar Morin and as a council member for The Darwin Project.

Klaus KRIPPENDORFF

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Klaus Krippendorff is the Gregory Bateson professor for Cybernetics, Language, and Culture at the Annenberg School for Communication at the University of Pennsylvania. He also sits on the boards for the Business Systems Laboratory, the World Complexity Science Academy, and the International Board of Economics & Business Knowledge.

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 coefficient, a statistical measure of the agreement achieved when coding a set of units of analysis in terms of the values of a variable. Krippendorff has authored several publications.

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

Ervin LASZLO

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**.

Laszlo has authored more than 400 articles and 75 books, and is the editor of *World Futures: The Journal of General Evolution*.

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

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

Vladimir LEFEBVRE

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.

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

Humberto MATURANA

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

Edgar MORIN

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, after 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 founding first 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.

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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 Institutionalist 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)

https://en.wikipedia.org/wiki/Karl_H._Müller

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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.

Constantin Virgil NEGOITA

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

Francisco Parra-Luna has been president of and/or founded many systems theory organizations such as the Comité de Recherche sur la Théorie des Systèmes de l'Association Internationale des Sociologues de Langue Française. He is the founder and was the first president of the Systems Theory Working Group (now 51 RC on Sociocybernetics) of the International Sociological Association, the founder of the Instituto Universitario de Recursos Humanos in Madrid and in charge of HTE 6.46 "Systems Science and Cybernetics" in the EOLSS of UNESCO. Actually he is the president of Sociedad Española de Sistemas Generales (SESGE), and the Centro Internacional "Lugar de la Mancha" de Estudios sobre el Quijote (CILMEQ). He is also a member of the editorial board of the journal Systems Research and Behavioral Science. Parra-Luna has authored 21 books and more than 50 articles and has won several prizes and distinctions including prize from the Fundación Rumasa in 1979, prize from the Institute de Estudios Laborales in 1979, prize del Centro de Investigaciones Sociológicas in 1982, the national prize on "Marketing político" in 1983 and the national prize for "Martín Artajo" on Employment Politics in 1987. He and his team at the University Complutense of Madrid discovered in 2005 "The Place of la Mancha" in the Cervantes novel Don Quixote by using Systems Methodology. He also had a square in the town Villanueva de los Infantes, Spain, dedicated to him in 2010.

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Laurence D. RICHARDS

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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 craftsperson 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.

Bernard SCOTT

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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

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.

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

Robert TRAPPL

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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.

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

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Stuart UMPLEBY

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 several journals, some including foreign language journals. 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.

blogs.gwu.edu/umpleby
https://en.wikipedia.org/wiki/Stuart_Umpleby

Robert VALLÉE

Robert Vallée was an emeritus professor at the Université Paris-Nord (France). 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.

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

Ernst von GLASERFELD

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 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 Quebec 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 in 2009.

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

Shouyang WANG

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.

https://www.researchgate.net/profile/Shouyang_Wang
http://www.apiems.org/Files/SWang_CV.pdf

Andrzej P. WIERZBICKI

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He is the author of Creative Space Aspiration Based Decision Support Systems: -Theory, -Software and -Applications. http://www.goodreads.com/author/show/2354814.Andrzej_P_Wierzbicki

He has authored more than 150 papers and 10 books..

Jennifer WILBY

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.

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

Jiuping XU

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.

Xinmin YANG

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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His current research interests are system modeling and identification, adaptive control, stochastic systems, and multi-agent systems.

He is an IFAC Fellow, IEEE Fellow, IASCYS Academician, and has twice received the State Natural Science Award of China, respectively, in 2010 and 2015.

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 University of Applied Sciences Munich. He is also a Board Member for the Science of Information Institute, the Bertalanffy Centre for the Study of Systems Science, the Unified Theory of Information Research Group, and the Institute for Design Science.

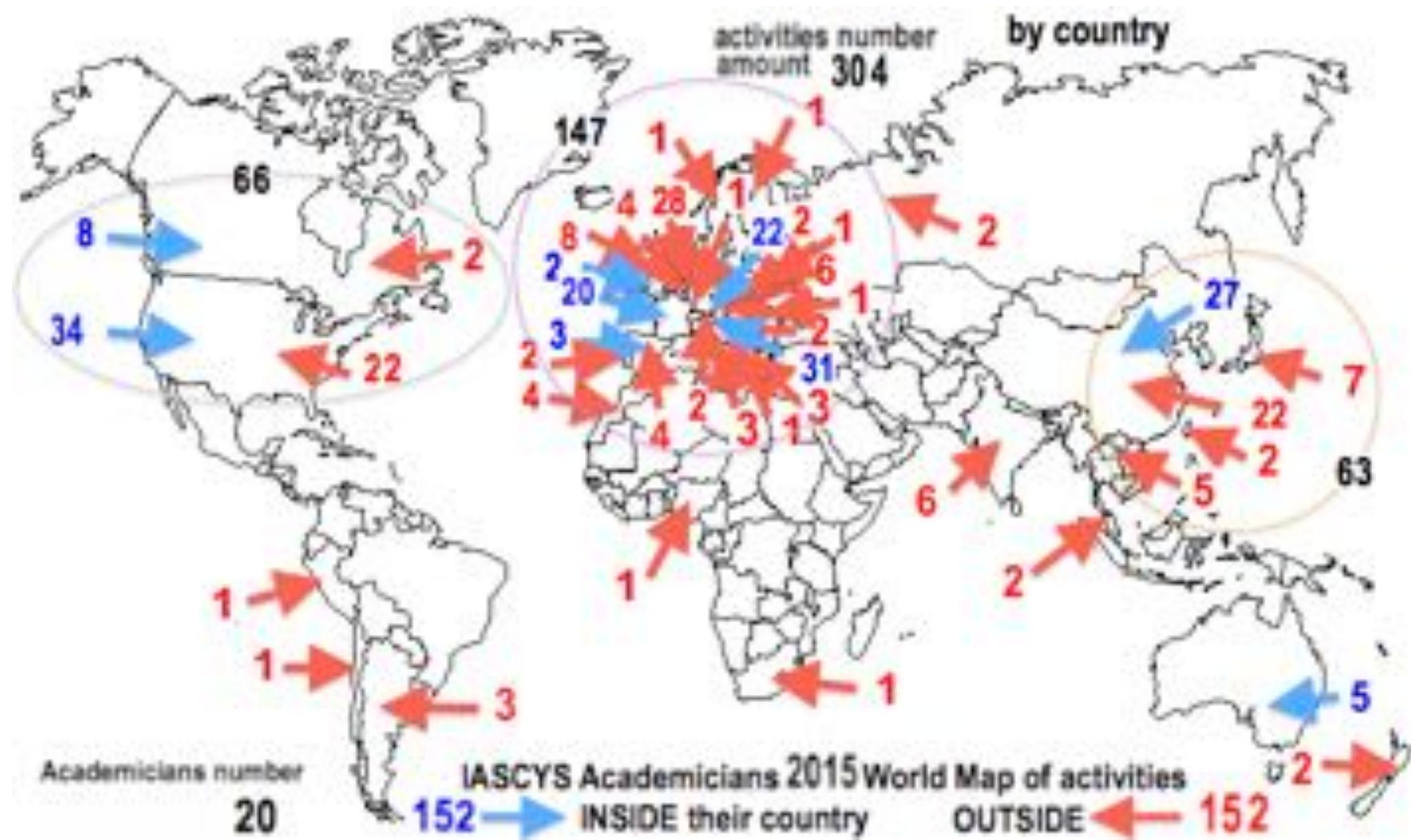
Zimmermann's fields of expertise are Transcendental Materialism, the Sciences of Complexity, Evolutionary Systems Theory, and Information Theory.

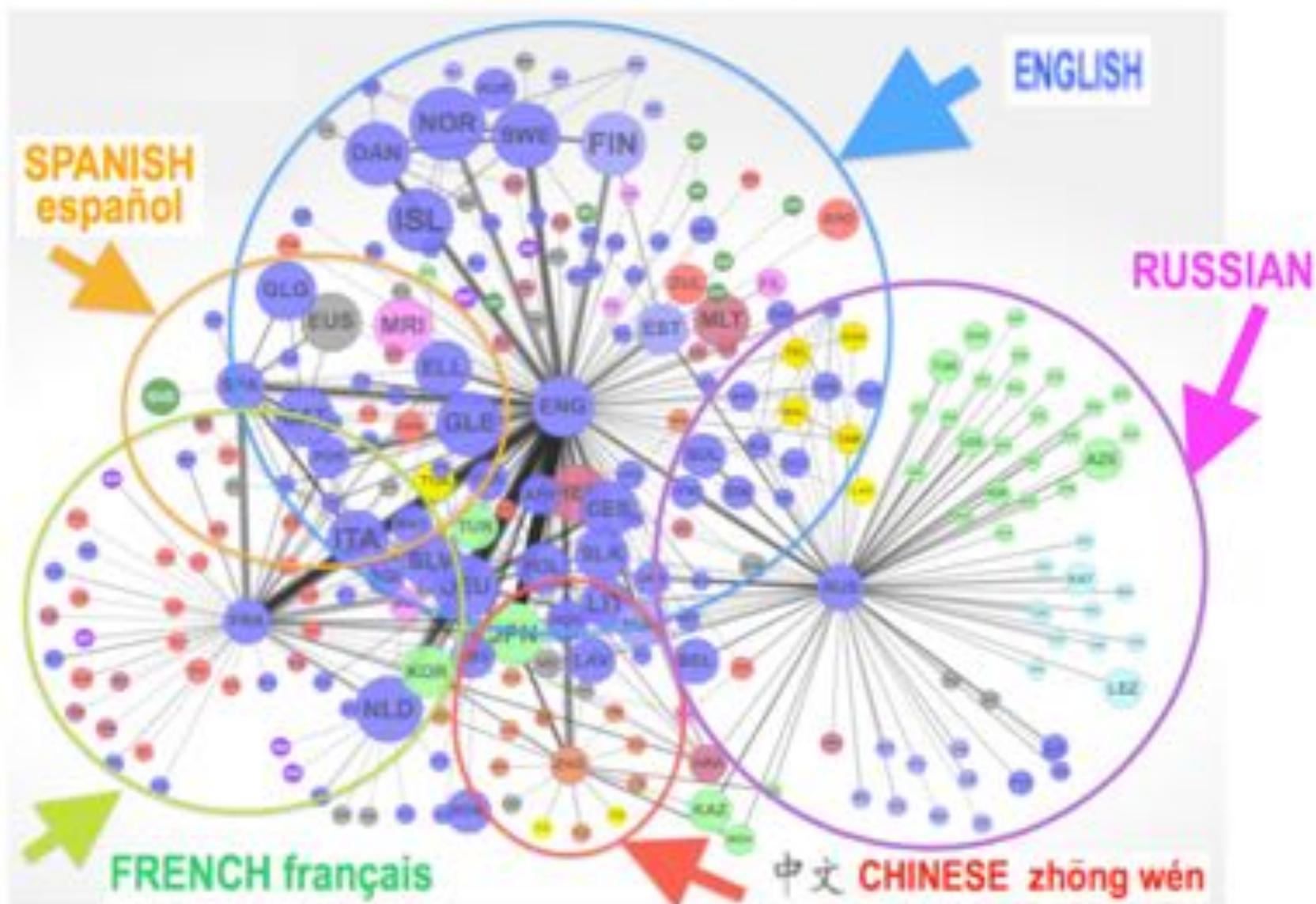
He has authored 20 monographs and about 350 peer-reviewed journal articles.

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Many books are translated into and out of languages such as English, German, and Russian, but Arabic has fewer translations relative to its many speakers. (Arrows between circles represent translations; the size of a language's circle is proportional to the number of people who speak it.)

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S. RONEN ET AL., PNAS EARLY EDITION (2014)