

# **Criteria for membership in the International Academy of Systems and Cybernetics Sciences IASCYS**

Candidates for IASCYS academicians should fulfill SEVENTY SCORES from the following ELEVEN CRITERIA for membership in the IASCYS. In special cases articles 11 to 14 apply. Then, **the IFSR member association should be entitled to submit application of its member with proving documents to the IASCYS Secretary General**, while the final step of the procedure is up to IFSR Board. Procedure is attached to criteria.

Criteria shall be quite precise and demanding to be appreciated by and appealing to the best scientists in the world in the area of systems and cybernetics (S&C) theories and applications, and closely related fields in which IFSR member associations, and their individual members, are active.

**Criteria are a system (= network of interdependent components)** and include:

1. Author of a **renown theory** in systems thinking and cybernetics, or sciences with clear historic roots in them (e.g. computer sciences, artificial intelligence, contemporary management and organization, robotics, automata, etc.), such as the ones in the International Encyclopedia of Systems and Cybernetics (Charles François, editor; Munich, Saur, 2004), or other renown encyclopedias etc. related to cybernetics and systems theory, such as UNESCO-EOLSS (Encyclopedia of Life Support Systems), etc. An author's first renown theory may get 10 scores, the second 5 scores; the total scores in this criterion are unlimited.
2. a) Author or coauthor of **several scientific journal articles** in the ISCI/ISSCI cited journals on systems thinking and cybernetics, or sciences with clear historic roots in them, such as Systems Research (and Behavioral Science), Cybernetics and Systems, Kybernetes, Systems Practice and Action Research, etc. Journals on the official list cover topics such as in Encyclopedia in criterion one. Every article may get 0.5 scores, the total scores in this criterion are unlimited.  
  
b) A scientific article in 2.a) journals, but no more than ten, can be replaced with two **articles published in other journals**, or two **chapters in books** in topics of 2.a), while each article can get 0.25 scores, or with five **scientific conference papers**, which can get 0.10 scores each, if accepted after a usual blind review process of international conferences (co-)sponsored by IFSR member associations with international scientific boards and contributions, or other similar conferences and published in conference proceedings. The total score in this criterion may be no more than 5.
3. Author enjoying several **citations in journals** such as the ones mentioned in criterion two, according to official international statistics of citations. Each citation in 2.a) journals may get 0.2 scores. Each citation in group 2.b) publications may get 0.1 score. The total score for these items are unlimited.
4. Having a second or more doctorates is considered equivalent to 5 scores. Honorary doctorates do not count, unless awarded for extra-ordinary achievement in S&C and/or their application.
5. Organizer – **chair or co-chair** of ten **international conferences** with a usual blind review process and international scientific boards and contributions, that are (co-)sponsored by one or more IFSR member association/s. For each conference the chair can get 1.0 score, the co-chair may get 0.8 scores, the total scores in this criterion may be no more than 15.
6. **Editor or co-editor** of an **international journal**, such as the ones mentioned in criterion two and cited by ISCI and possibly (co-)published by one or more IFSR member association/s, serving for at least five years. Each year gives 2.0 scores. Other international journals related to cybernetics and systems research give 1.5 score for each year. The total score in this criterion may be no more than 15.

7. **Teaching** systems theory and cybernetics and/or their application/s, or sciences with clear historic roots in them, **abroad** or in renown universities for five semesters / terms. **Consulting** on such a basis to organizations, especially **abroad** on five appointments is considered equivalent. One semester or consulting appointment may get 1.0 score, in the same country 0.5 score, the total scores in this criterion may be no more than 15.
8. Practical **application** of systems theory and cybernetics, or sciences with clear historic roots in them, in several countries with clear benefits to its users, such as innovation<sup>1</sup>. Five cases must be proven, at least. Each case may get 2.0 scores; the total scores in this criterion may be no more than 16.
9. Membership in a national or international **Academy of Sciences** (and Arts / Humanities), sometimes called Learned Societies, for five years. One membership per year and Academy may get 2.0 scores; the total scores in this criterion are unlimited.
10. Author or leading co-author of an **internationally translated/published or well-selling book** on systems theory and cybernetics or sciences with clear historic roots in them, such as the ones mentioned in criterion one. For one such published book one may get 10.0 scores, for the national publication 5.0 scores; the total score in this criterion are unlimited.
11. Active member of a IFSR member association or IFSR **board or Executive Committee** for several years, which means active service and/or active and beneficial participation in its activities, such as conferences, journal editorial board, managing board, etc. For each of these activities one may get 2.0 scores per year; the total score in this criterion may be no more than 16.
12. If there are candidates for membership in IASCYS, who do not fulfill the above criteria, but have very special merits for development of the scientific and applied aspects of the systems and cybernetics sciences, the IFSR Board may nominate them honorary members of IASCYS. Criteria in point 13 must apply.
13. Criteria for honorary membership of IASCYS may be added or replace criteria in points 1 – 10 above. They include:
  - 13.1. Establishment and/or more than twenty years of office in an IFSR member association and/or IFSR.
  - 13.2. Authorship of unique contributions such as The International Encyclopedia of Systems and Cybernetics, establishment and/or running a S&C related journal for 10 years at least, etc.
14. Procedure is the same as for all other member nominations, summarized in p. 15.
15. Data proving the candidate's achievements must be official, e.g. in university evidence, and certified by the IFSR member association that suggests its member to become IASCYS member. Data must be attached to the official application submitted to IFSR board. Details of procedure are attached to this document on criteria for membership.

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<sup>1</sup> By official international agreement (Frascati Manual 1971), innovation is every novelty causing a proven new benefit to its users and therefore also to its owners/authors (which cannot be attained on basis of a one-sided rather than requisitely holistic thinking, research, development, decision-making, marketing, production, etc., and practical application). European Union officially claims systems thinking as a basis of innovation.

## **Procedure for appointment of new IASCYS academicians**

***Step 1:*** A potential candidate for IASCYS academician, who is a member of an IFSR member association submit his or her data with documents and their summary. Data are ordered in line with these criteria.

*Step 2:* IFSR member association double-checks submitted data.

*Step 3:* IFSR member association submits approved candidacy to IASCYS's Secretary General.

*Step 4:* IASCYS's Secretary General, after double-checking, the submitted candidacy to IASCYS Executive Committee for voting. Voting is done in a written way in two weeks, if a session face to face is not possible. Traditional and e-mail apply equally.

*Step 5:* If voting is positive (by simple majority, and with the decisive vote by President, if necessary), IASCYS's Secretary General submits the approved candidacy to IFSR Executive Committee for final approval.

*Step 6:* Once IASCYS's Secretary General is notified of the approval of candidacy, he or she notified the IFSR member association and the new IASCYS academician that he or she has been appointed, in a written way.

*Step 7:* Certificates of appointment as an IASCYS academician are handed on the first next festivity of either IASCYS or IFSR or IFSR member association, or by mail (in the latter way is agreed upon by the new IASCYS academician).