VP Publication Report

Paolo Carbone

2013 April ADCOM Meeting
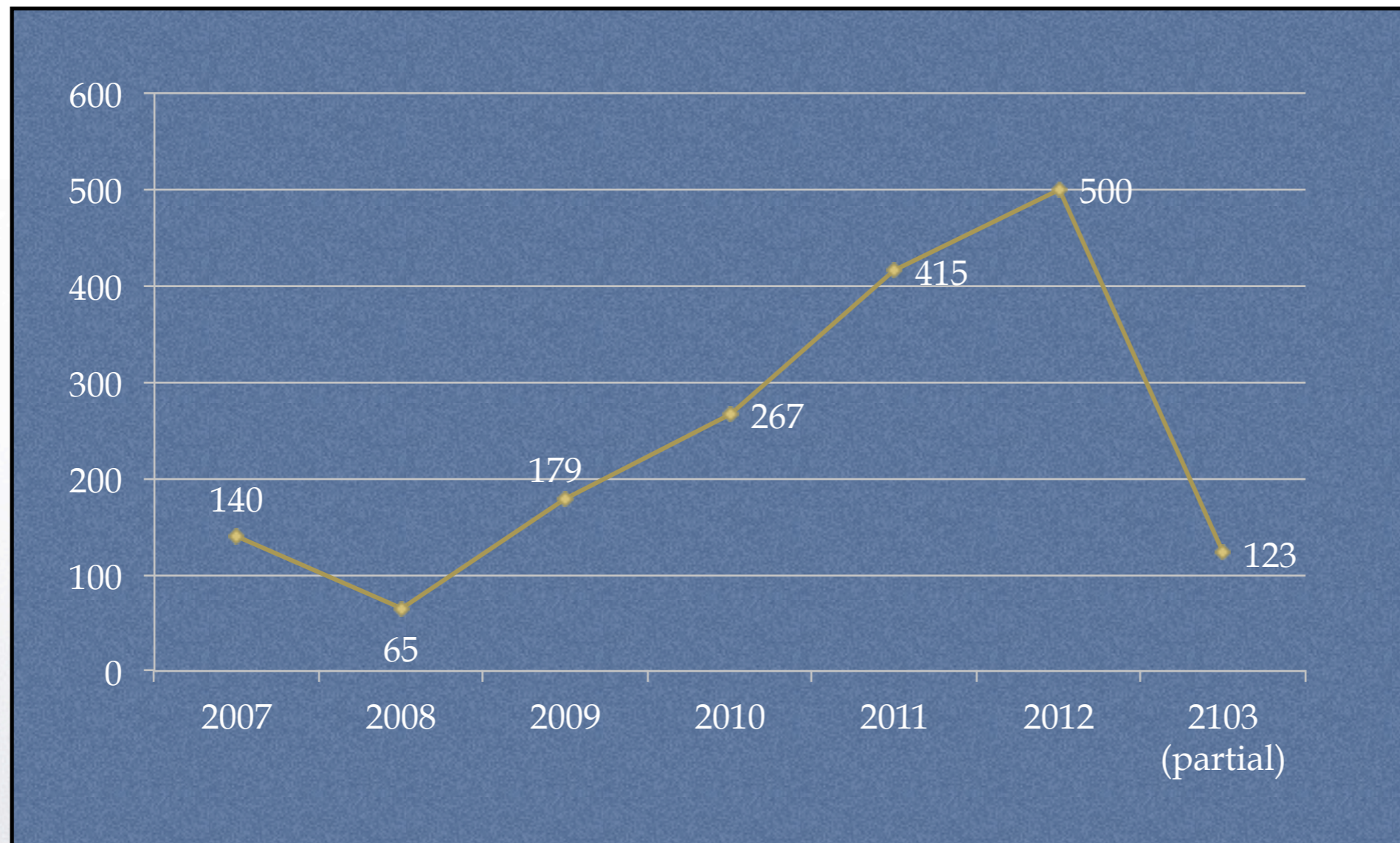
IEEE Systems Journal Status

New EiC

- New EiC, Vincenzo Piuri, University of Milan

- Co-editors in Chief: Saeid Nahavandi, Amir G. Aghdam

- Kept name of Mo Jamshidi as founding EiC

- new submission website: http://mc.manuscriptcentral.com/ieee-sj

- operative starting May

- new journal website: http://sites.ieee.org/systemsjournal/

- hybrid journal policies installed

IEEE Systems Journal: submissions over the years

IEEE Systems Journal: some facts

Year	Submitted	Published	Rejected	Withhdrawn	In process	
2007	140	63	71	5	0	1st year
2008	65	35	27	1	0	2nd year
2009	180	57	98	12	3	3rd year
2010	268	111	137	7	2	4th year
2011	417	36	282	18	11	5th year
2012	500	1	234	13	173	6th year
2013	123	0	49	0	74	7th Year
Total	1693	303	898	56	263	papers

1st Year
2nd Year
3rd Year
4th Year
5th Year
6th Year
7th Year

Production figures

	average (weeks - Q1)	# articles	average (weeks - Q3)	
min	6	85	7.4	Photonics Journal
max	120	63	109.8	Aerospace & elect. systems
Our Journal	41.5	15	56.6	

Source:
IEEE Submission To Publication Report Listed by Publication
For Articles Published in Q1-Q3 2012

Figures and facts

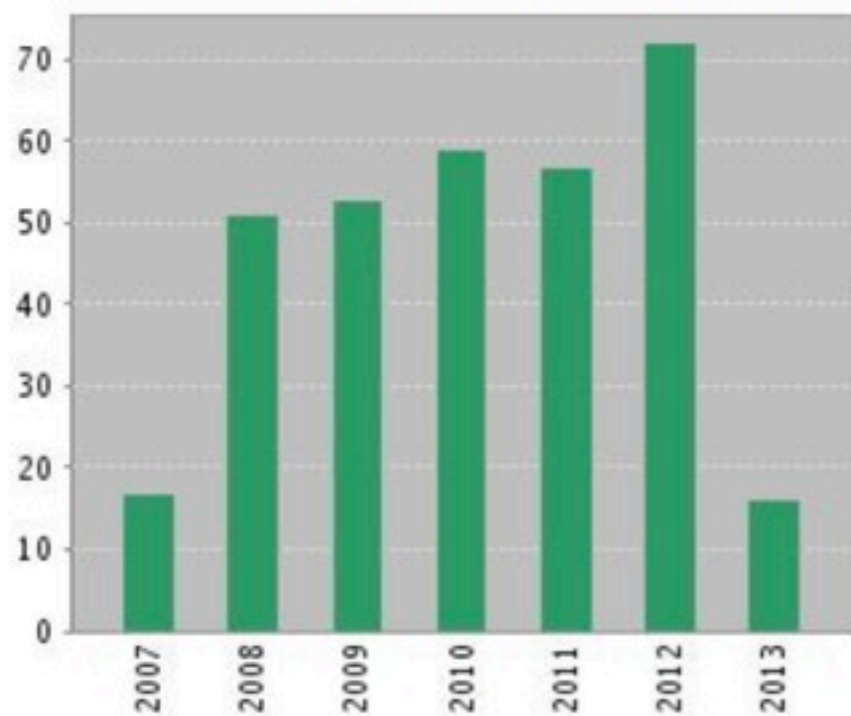- **The first 5 most cited papers:**
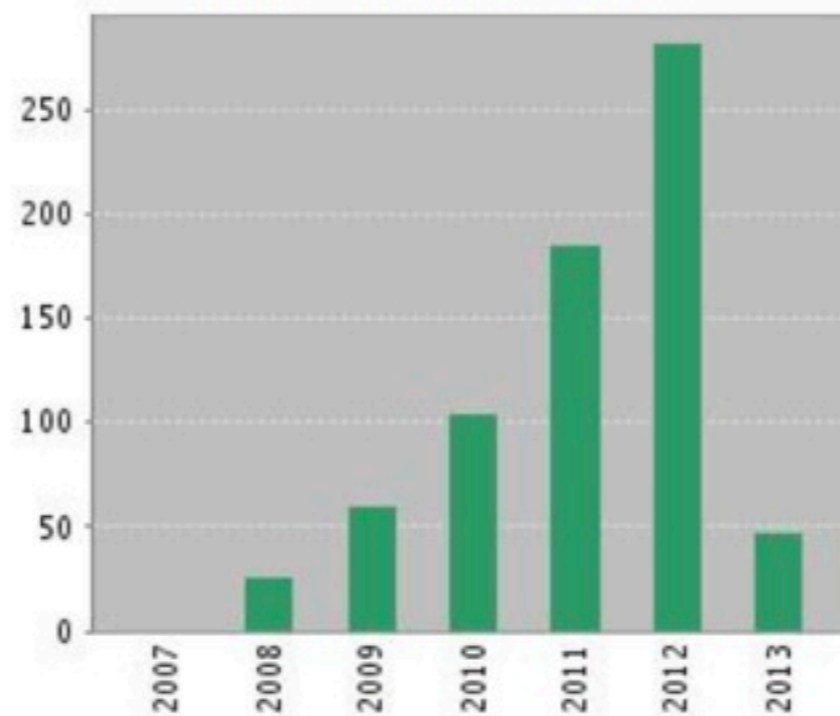
#citations/year (total #citations)

Title: **Evaluation of the State of Passive UHF RFID: An Experimental Approach** Author(s): Aroor Supreetha Rao; Deavours Daniel D.	4.71 (33)
Title: **RFID Application Development With the Accada Middleware Platform** Author(s): Floerkemeier Christian; Roduner Christof; Lampe Matthias	4.43 (31)
Title: **Biologically Inspired Cooperative Routing for Wireless Mobile Sensor Networks** Author(s): Iyengar S. S.; Wu Hsiao-Chun; Balakrishnan N.; et al.	2.86 (20)
Title: **Processes for System Family Architecting, Design, and Integration** Author(s): Sage Andrew P.; Biemer Steven M.	2.86 (20)
Title: **System-of-Systems Engineering Management: A Review of Modern History and a Path Forward** Author(s): Gorod, Alex; Sauser, Brian; Boardman, John	2.50 (15)

Figures (ISI web of science)

2012 edition of *Journal Citation Reports* will be made available mid-year 2013.

- Impact factor 2011 - 0.923
- Impact factor 2010 - 0.629
- Impact factor 2009 - 0.825

- INCOSE Systems Engineering
- Impact factor 2011 - 0.42
- Impact factor 2010 - 0.791
- Impact factor 2009 - 0.578

IF year X = average number of citations per article in year X of articles in previous 2 years (X-1, X-2)
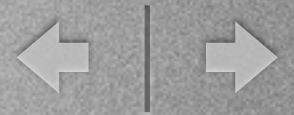
Usage example
IF enters research quality assessment models throughout the world

Drawback
Often criticized because induces adaptive behaviors by authors and publishers

- Complex Measurement Systems

- System of Systems Engineering in cooperative and competitive distributed decision making for complex dynamic systems

- Systems-related topics in Robotics & Automation for human health

- Intelligent Internet of Things

- Under review:

- Smart Grid Communications Systems

- Computer-aided Cancer Detection and Diagnosis Systems

- Cognitive-inspired Network Systems

Activities

- **Medium term**: increase involvement of member socs

  - Member socs to promote special issues (e.g. through rep. members: complex instrumentation systems): e.g. Complex Measurement Systems

  - Promote journal at member socs flagship conferences: send handouts/posters to conference/publication coordinators

  - Transition opportunities from SYSC conference paper to journal

  - Call for knowledgeable authors to write a survey paper on a systems engineering topic to attract interest (to be submitted e.g. to IEEE Proc. (>6 IF) or the same IEEE Systems Journal)

SYSTEMS THINKING?
THINK OF THE IEEE SYSTEMS JOURNAL!

The IEEE Systems Journal publishes peer-reviewed technical papers dealing with many shared aspects and attributes of systems and system-of-systems across the many domains and applications, in particular:

- complexity
- dynamics
- integration
- interoperability
- adaptability

- completeness
- effectiveness
- modeling
- analysis
- simulation

- engineering
- science
- human factors
- management
- operations

- communications
- applications
- ethics
- education
- and much more

Typical domains include:

- autonomous vehicles and systems
- disaster response
- energy
- environmental monitoring and control
- exploratory exploration (space, terrestrial, underwater)
- global earth observation & prediction
- human health and life science

- intermodal transportation systems
- logistics
- national defenses security
- organizational internal
- privacy & security
- social and political systems
- socio-economic (including trade & banking systems)

Typical disciplines, processes, and skills include:

- automation & control
- decision making and optimization
- management of large-scale systems
- manufacturing
- mission assurance
- modeling and simulation
- nanotechnology in system-of-systems
- self-con guration and adaptation
- product life cycle

- regulatory compliance
- reliability & availability
- safety
- maintainability
- quality
- risk management
- scholarship of systems engineering
- systems engineering processes
- systems-of-systems

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Budget issues regarding the journal

- the manuscript central software system will cost 18 k$ (new initiative) in 2013, plus 3 k$ to keep the old system alive during transition

- the editorial assistant will cost 2500 $

- EiC asked to increase the number of pages to 900, starting 2013

- starting 2014, manuscript central will cost 10 k$/year

- starting 2014, proposal to increase the contract of the editorial assistant (2700 $/year)

Sponsorship of other pubs

- Currently involved in following activities:

- Financial sponsorship of T. Cloud Comp. (7%)

- IEEE Trans. Big Data (more in next slide)

- Cloud Computing Magazine, Big Data Magazine: proposed technical-cosponsorship

Trans. on Big Data

- No financials yet: plan for similar project had following financials (according to Jon Rokne):

- 15K, 10K, 2K deficit for the first three years for a total of 27K (cumulative start costs)

- We expressed financial interest, as well as (tentative split):

Computer Society - at least 51%
Systems Council - 10%
Computational Intelligence - 10%
Communications Society - 10%
Sensors Council - 10%
Systems, Man, and Cybernetics Society - 20%
Technical Co-sponsorship by: Photonics Society, Control Systems Society, Power and Energy Society, Signal Processing Society, Biometrics Council

TAB will discuss this proposal during the summer Board Series