

**Ioan Tabus, Ph.D. Professor**  
**23.09.2016**

- 1.Full name, gender Ioan Tabus, male
- 2.Place and date of birth Birlad, Romania, January 6, 1957
- Citizenship Finnish and Romanian
- Domicile: Tohtorinkatu 7A4, 33720 Tampere
3. Education and degrees
- March 1995: PhD degree (*with honors*) from the Department of Information Technology, Tampere University of Technology, Finland; thesis title: *Training and Model Based Approaches for Optimal Stack and Boolean Filtering with Applications in Image Processing.*
  - December 1993: PhD degree from the Control and Computers Department of the "Politehnica" University of Bucharest, Romania; thesis title: *Neural Networks for Adaptive Signal Processing.*
  - 1982 MSc degree from the Control and Computers Department of the "Politehnica" University of Bucharest, Romania.
- 4.Linguistic skills: Romanian (native), English (fluent), Finnish (Level 3)
- 5.Current position: 01.2000-Present Professor of Signal Processing, Tampere University of Technology (Signaalinkäsittelyn Professori)
- 6.Previous professional appointments
- 01.96-12.99 Senior researcher, Tampere University of Technology, Finland.
  - 9.94-12.99 Associate Professor at the Control and Computers Department of the "Politehnica" University of Bucharest, Romania (on leave from 01.1996).
  - 8.92-8.93, 8.94-3.95, 6.95-9.95 Visiting researcher at Tampere University of Technology
  - 9.90-8.92, 9.93-8.94 Lecturer at Control and Computers Department of the "Politehnica" University of Bucharest
  - 9.84-8.90 Teaching assistant at Control and Computers Department, "Politehnica" University of Bucharest, Romania
  - 9.82-8.84 research and development engineer at Birlad Bearing Factory, Romania

7. Major research funding and academic leadership, student supervision
- Academy of Finland SPAG Center of excellence 2000-2005 and 2006-2011 (a joint application of 10 Professors and Senior Researchers)
  - Academy of Finland "Source and Channel coding" 1999
  - Academy of Finland Varttunut tutkija 2002-2003
- 7.1 Awarded Grants:
- Academy of Finland funding of a postdoctoral position 2003-2005
  - Nokia -co-funding one postdoctoral position 2003-2005
  - Nokia Research Center - Universal Coding Tools, research grant 2008
  - Nokia Research Center - Universal signal coding for context based data representation, research grant 2009
  - Digile - Data to Intelligence - Tekes funding 2014-2015
- 7.2 Supervised doctoral dissertations (13)
1. *Ciprian Doru Giurcaneanu* (2001, Univ. Auckland, New Zealand), 2. *Razvan Iordache* (2001, General Electric, Paris, France), 3. *Riitta Niemistö* (2003, Huawei, Tampere, Finland), 4. *Adriana Vasilache* (2003, Nokia, Finland), 5. *Cristian Mircean* (2005, Global Maritime, Norway), 6. *Gergely Korodi* (2006, Research in Motion, Canada), 7. *Andrea Hategan* (2009, SwiftKey, UK), 8. *Alireza Razavi* (2011, Tampere University of Technology), 9. *Antti Liski* (2013, Statistics Finland), 10. *Florin Ghido* (2013, Fraunhofer, Germany), 11. *Alexandru Onose* (2014, Heriot-Watt University Edinburgh), 12. *Helena Astola* (2015, Tampere University), 13. *Ionut Schiopu* (2016, TUT)
- 8.3 Supervised licentiate theses (2)
- Jari Kataja (2012, VTT), Timo Suojoki (2005, Patria)
- 8.4 Supervised MSc theses (12)
- P. Helin (2013), I. Schiopu (2011), H. Astola (2011), R. Moradi (2010), J. Zou (2009), S. Sarbu (2009), A. Homescu (2009), Y. Yang (2006), J. Hofman (2005), M. Sharma (2005), M. Paolieri (2005), D. Leon (1998)
9. Major teaching duties
- Courses given: System Identification (1993-95), Advanced Signal Processing (2013-16), Adaptive Signal Processing (1996-2012), Signal Compression (2000-2016), Spectrum Estimation (2000-2012), Doctoral Seminars (2000-2016)  
 Coordinator of the international program and member in the board of the International Master's Program in Information Technology (1996-2012)
10. Scientific awards and honors
- Co-recipient of "Traian Vuia" Award of the Romanian Academy for the year 1989 (with Petre Stoica)
  - Best paper award NSIP-2001: "Using MDL for gene expression prediction from microarray measurements" (with Jaakko Astola).
  - Best paper award NORSIG-2004: "Protein is compressible" (with Andrea Hategan)
  - Best paper award 3DTV-CON 2016: "Sparse Modelling and Predictive Coding of Subaperture Images for Lossless Plenoptic Image Compression" (with Petri Helin, Pekka Astola, Bhaskar Rao)

## 11. Other academic merits and activities

### 11.1 Reviewer or Committee member for PhD theses (15)

1. Evgeny Ageenko, Joensuu University, 2000
2. Aki Härmä, Helsinki University of Technology, 2001
3. Mihai Enescu, Helsinki University of Technology, 2002.
4. Stefan Werner, Helsinki University of Technology, 2002.
5. David Mary, University Sophia Antipolis, France, 2003
6. Qosai Kanafani, University Paris 13, France, 2003.
7. Joonas Lehtinen, University of Turku, 2004.
8. Isabel Tienda, University of Granada, Spain, 2006.
9. Alexander Akimov, University of Joensuu, 2006.
10. Teemu Roos, University of Helsinki, 2007.
11. Tommi Mononen, University of Helsinki, 2009
12. Minjie Chen, University of Eastern Finland, 2012
13. Panu Lusto, University of Helsinki 2013
14. Marco Zamarin, Techn. University of Denmark, 2013
15. Mohammad Rezaei, University of Eastern Finland, 2016

### 11.2 International peer evaluation of funding applications (3)

- Nominated an expert assessor of international standing by Australian Research Council (ARC), 2003,2011.
- Reviewer for Deutsche Forschungsgemeinschaft (German Research Foundation) (2011)
- Reviewer for The Research Foundation, Flanders (2015-16)

### 11.3 Membership and positions of trust in scientific societies

- 1995-1998 Member of IEEE
- 1999-present Senior Member of IEEE

### Editor-in-Chief (1)

- EURASIP Journal on Bioinformatics and System Biology, Editor-in-Chief 2005 - 2013

### Associate Editor (2)

- Associate Editor IEEE Transactions on Signal Processing: 2002-2005.
- Associate Editor Signal Processing (Eurasip/Elsevier Journal): 2006-2009.

### Guest editor (3)

- Guest Editor, Signal Processing (Eurasip/Elsevier Journal) Special issue on Genomic Signal Processing, 2002.
- Guest Editor, IEEE Signal Processing Magazine, Special Issue on Signal Processing for Genomics, January 2007.
- Guest Editor, IEEE Journal of Selected Topics in Signal Processing, Special Issue on genomic and proteomic signal processing, June 2008.

12. Scientific and societal impact of research

Total number of publications: 43 reviewed journal papers, 11 reviewed book chapters, 160 peer-reviewed conferences, 1 issued patent, 2 patent applications.

Web of Science database

111 publications, Sum of the times cited: 461, H-index: 12

Google scholar:

208 publications, Sum of the times cited: 1433, H-index: 20, i10-index 43

13. Scientific positions of trust

- Member of IEEE TC Bio Image and Signal Processing 2005-2010
- Chapter Chair, IEEE Signal Processing-Circuits and Systems joint chapter, Finland, 2000-2001.

Organizing committees

- Finance co-chair: WS'99 IEEE Speech Coding Workshop, Haikko Manor, Porvoo, Finland, 20-23 June 1999.
- Finnaace co-chair: EUSIPCO 2000, Tampere, Finland, 2000.
- Conference co-chair: Geometric, Nonlinear, and Morphological Methods in Image Analysis, Part of IS&T/SPIE's International Symposium on Optics and Photonics 2005, San Diego, California, USA.
- Technical Co-Chair IEEE Workshop on Genomic Signal Processing and Statistics, GENSIPS 2006, May 28-30 2006, College Station TX, USA
- Technical Co-Chair International Symposium on Signal Processing and Applications, ISSPA 2007, 11-16 February, Sharjah, UAE.
- Technical Co-Chair IEEE Workshop on Genomic Signal Processing and Statistics, GENSIPS 2007, Tuusula, 10-12 June 2007, Finland
- General Co-Chair 2008 Workshop on Information Theoretic Methods in Science and Engineering August 18 - 20, 2008, Tampere, Finland
- General Co-Chair Second Workshop on Information Theoretic Methods in Science and Engineering August 17 - 19, 2009, Tampere, Finland
- General Co-Chair Third Workshop on Information Theoretic Methods in Science and Engineering August 16 - 18, 2010, Tampere, Finland
- Co-Chair Sixth Workshop on Information Theoretic Methods in Science and Engineering August 26 - 29, 2013, Tokyo, Japan