

## Curriculum vitae

## Ioan Tabus

Date and Place of birth January 6, 1957, Birlad, ROMANIA

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Citizenship Finnish and Romanian

Family Languages married, one boy  
English, French, Finnish, Romanian.

STUDIES

- 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.

Posts and Positions held

- 01.2000-Present Professor of Signal Processing, Tampere University of Technology, Finland.
- 01.96-12.99 Senior researcher and Coordinator of International Programs in Signal Processing, Tampere University of Technology, Finland.
- 9.94-12.99 Associate Professor at the Control and Computers Department of the "Politehnica" University of Bucharest, Romania.
- 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

**Scientific Research Activity**

- Coauthor of over 150 journal papers, conference papers, technical reports, book chapters and books.

**Research Interests**

- Information theoretic methods for inference, Bioinformatics, Speech, audio and image compression, Source coding, Adaptive signal processing, Nonlinear signal processing, Image processing.

**Awarded Grants**

- 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
- 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

**Supervised doctoral dissertations**

1. Ciprian Doru Giurcaneanu. Graduated June 2001. Grade: Pass with commendation.
2. Razvan Iordache. Graduated August 2001. Grade: Pass with commendation.
3. Riitta Niemistö. Graduated February 2003. Grade: Pass.
4. Adriana Vasilache. Graduated August 2003. Grade: Pass.
5. Cristian Mircean. Graduated December 2005. Grade: Pass.
6. Gergely Korodi. Graduated October 2006. Grade: Pass.
7. Yinghua Yang. Expected graduation 2010.
8. Andrea Hategan. Expected graduation: 2009.
9. Bogdan Barliga. Expected graduation: 2010.
10. Florin Ghido. Expected graduation 2009.
11. Antti Liski. Expected graduation 2010.

**Duties as scientific expert**

- Nominated an expert assessor of international standing by Australian Research Council (ARC), 2003.

Reviewer or Committee member for PhD theses	<ol style="list-style-type: none"> <li>1. Evgeny Ageenko, Joensuu University, 2000</li> <li>2. Aki Härmä, Helsinki University of Technology, 2001</li> <li>3. Mihai Enescu, Helsinki University of Technology, 2002.</li> <li>4. Stefan Werner, Helsinki University of Technology, 2002.</li> <li>5. David Mary, University Sophia Antipolis, France, 2003</li> <li>6. Qosai Kanafani, University Paris 13, France, 2003.</li> <li>7. Joonas Lehtinen, University of Turku, 2004.</li> <li>8. Isabel Tienda, University of Granada, Spain, 2006.</li> <li>9. Alexander Akimov, University of Joensuu, 2006.</li> <li>10. Teemu Roos, University of Helsinki, 2007.</li> </ol>
Scientific positions of trust	<ul style="list-style-type: none"> <li>• 1995-1998 Member of IEEE</li> <li>• 1999-present Senior Member of IEEE</li> </ul>
IEEE responsibilities	<ul style="list-style-type: none"> <li>• Member of TC Bio Image and Signal Processing 2005-Present</li> <li>• Chapter Chair, IEEE Signal Processing-Circuits and Systems joint chapter, Finland, 2000-2001.</li> </ul>
Editor-in-Chief	<ul style="list-style-type: none"> <li>• EURASIP Journal on Bioinformatics and System Biology 2005 - Present</li> </ul>
Associate Editor	<ul style="list-style-type: none"> <li>• Associate Editor IEEE Transactions on Signal Processing : 2002-2005.</li> <li>• Associate Editor Signal Processing (Eurasip/Elsevier Journal): 2006-2009.</li> </ul>
Guest editor	<ul style="list-style-type: none"> <li>• Guest Editor, Signal Processing (Eurasip/Elsevier Journal) Special issue on Genomic Signal Processing, 2002.</li> <li>• Guest Editor, IEEE Signal Processing Magazine, Special Issue on Signal Processing for Genomics, January 2007.</li> </ul>
Conference Technical committees	<ul style="list-style-type: none"> <li>• ICT 2001, IEEE International Conference on Telecommunications, June 4-7, Bucharest, Romania.</li> <li>• ISSPA 2001 Sixth International Symposium on Signal Processing and its Applications, Kuala-Lumpur, Malaysia, August 13-16, 2001.</li> <li>• FWCW-01, Finnish Wireless Communications Workshop (FWCW-01) and URSI XXVI Convention on Radio Science, Tampere, Finland, October 23-24, 2001.</li> <li>• Eusipco 2002, Toulouse, France.</li> <li>• IAFA 2003, First South-East European Symposium on Interdisciplinary Approaches in Fractal Analysis, Bucharest, Romania, 7-10 May 2003.</li> <li>• International Workshop on Discrete Genetic Networks,</li> </ul>

College Station Texas, 2003.

Organizing  
committees

- Finance co-chair: WS'99 IEEE Speech Coding Workshop, Haikko Manor, Porvoo, Finland, 20-23 June 1999.
- Finance co-chair: EUSIPCO 2000, Tampere, Finland, 2000.
- Publicity chair: ISSPA 2003, International Symposium on Signal Processing and Applications, Paris, July 2-5, 2003.
- Publication chair: ISCCSP 2004, First International Symposium on Control, Communications and Signal Processing, Hammamet, Tunis, 21-24 March 2004.
- 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 2009 Workshop on Information Theoretic Methods in Science and Engineering August 17 - 19, 2009, Tampere, Finland

Scientific prizes

- Co-recipient of "Traian Vuia" Award of the Romanian Academy for the year 1989.
- 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)