



**Attila Vidács** (born 16<sup>th</sup> March 1973, Budapest, Hungary) is an Associate Professor at the Department of Telecommunications and Media Informatics (TMIT), Faculty of Electrical Engineering and Informatics at Budapest University of Technology and Economics (BME), Hungary. He received his MSc Degree in Electrical Engineering and a PhD Degree at BME in 1996 and 2002, respectively. At present, he is the Executive Manager and Board Member of the High Speed Networks Laboratory (HSN Lab) at BME-TMIT.

**Homepage:** <http://www.tmit.bme.hu/attila.vidacs>

### **Research and projects**

The applicant research interests are in the field of green networking technologies (cellular systems, LTE); ad-hoc and wireless sensor networking; dynamic spectrum allocation; Game Theory in telecommunications. He was involved as a researcher in many national and international research project. Recently he is taking the project management tasks of BME contribution to FP7-ICT-EARTH (Energy Aware Radio and neTwork tecHnologies) project on “green” cellular mobile radio networks. He is the Management Committee Member from Hungary in COST Action IC0806 IntelliCIS (Intelligent Monitoring, Control and Security of Critical Infrastructure Systems). He acted as the BME team leader in EU funded project: FP5-IST-INTERMON (2002-2004), FP6-IST-MOME (2004-2006).

### **Teaching**

The applicant is lecturing the following courses: Infocommunications in transportation systems (MSc-BSc); Services and Applications (MSc); Network simulation techniques (PhD); Wireless sensor networks (MSc-BSc). The applicant supervised or co-supervised 12 PhD students, two of them were awarded the Best PhD Student of the Laboratory.

### **Work experience:**

2005, 1999 and 1996: Helsinki University of Technology, Lab. of Telecommunications Technology  
2002–2006: Ericsson Ltd., Network Performance and Traffic Analysis Laboratory, Budapest.  
1997: NTT, Multimedia Networks Laboratories, Tokyo, Japan. (visiting researcher)  
1995: Delft University of Technology, Computer Architecture and Digital Technique Lab, The Netherlands. (TEMPUS student scholarship)

### **Professional committees, societies**

2011–present: Secretary of IEE Jury of Hungarian Scientific Research Fund (OTKA)  
2009–present: Member of Quality Assurance Committee of the Faculty of EE&I, BME  
2000–present: Scientific Association for Infocommunication (HTE), member

### **Honours and awards:**

2010: Golden Badge of Scientific Association for Infocommunications Hungary (HTE)  
2006: Best Paper Award, Int. Conf. on Integrated Internet Ad hoc and Sensor Networks (InterSense), Nice, France, 30-31 May, 2006  
2005: Pro Scientia Gold Medal of National Scientific Student Council  
2005: Silver Badge of Scientific Association for Infocommunications Hungary (HTE)  
2004–2007: János Bolyai Research Scholarship of the Hungarian Academy of Sciences  
1998: Pollák-Virágh Prize of Scientific Association for Infocommunication Hungary (THE)

### **Editorial work, workshop and conference organizations**

The applicant acted/acts as the Guest Editor of a Special Issue of Springer’s Telecommunication Systems Journal (IF: 0.286 in 2010) in 2010 and 2011. The applicant served as a reviewer for more than a dozen international journals and for many international conferences and workshops.

The applicant served as a Program/General Chair in workshops IPS 2004, PWSN 2007, FuturICT 2009 and EUNICE 2012, and acted as Technical Program Committee member at IPS 2003, IPS-MoMe 2005, IPS-MoMe 2006, SN 2008, DSN 2008, TSP 2010, 2011 and 2012, PWSN 2012, IEEE WCNC WS 2 2012, IAESTED PDNC 2013.

## Publications

Attila Vidács published more than 100 conference and journal papers in various scientific research fora. Selected publications are:

- I. Gódor, P. Frenger, O. Blume, H. Holtkamp, M. Imran, **A. Vidács**, P. Fazekas, D. Sabella, E. C. Strinati, R. Gupta, P. Pirinen, A. Fehske, "*Green Communications - Green Wireless Access Networks*", *Book chapter*, CRC Press, 2012
- A. Vidács**, I. Gódor, "Power Saving Potential in Heterogeneous Cellular Mobile Network", In: *W-GREEN Workshop of IEEE PIMRC'11*, Toronto, Canada, 11-14 September 2011
- G. Biczók, L. Toka, A., T. A. Trinh, **A. Vidács**, "Incentivizing the Global Wireless Village", *Computer Networks* (Elsevier), 55: p.3, 2010 (IF: 1.201)
- R. Vida, **A. Vidács**, "Mobility in Wireless Sensor Networks", Book chapter, In: Y. Zhang, L. T. Yang, J. Chen (ed.), *RFID and Sensor Networks*, CRC Press, Taylor & Francis Group, pp. 379-408, 2009
- L. Toka, **A. Vidács**, "General Distributed Economic Framework for Dynamic Spectrum Allocation", *Computer Communications* (Elsevier) 32(18):1955-1964, 2009 (IF: 0.93)
- Z. Vincze, D. Vass, R. Vida, **A. Vidács**, A. Telcs, "Adaptive Sink Mobility in Event-Driven Densely Deployed WSNs", *Int. J. Ad Hoc & Sensor Wireless Networks*, 3(2-3):255-284, 2007
- Z. Vincze, D. Vass, R. Vida and **A. Vidács**, A. Telcs, "Sink Mobility in Event-driven Multi-hop Wireless Sensor Networks", In: *Proc. InterSense*, Nice, France, 30 May 2006 (**Best Paper Award**)
- P. Füzési and **A. Vidács**, "Game Theoretic Analysis of Network Dimensioning Strategies in Differentiated Services Networks", In: *Proc. of IEEE ICC*, New York, USA, 2 May, 2002
- A. Vidács** and J.T. Virtamo, "Parameter Estimation of Geometrically Sampled Fractional Brownian Traffic", In: *Proc. IEEE INFOCOM*, Tel-Aviv, Israel, March 26-30, 2000
- Sz. Malomsoky, **A. Vidács** and H. Saito, "Real Time VP Bandwidth Control for Long Range Dependent Traffic", *Int. J. of Communication Systems*, (12):229-247, 1999
- A. Vidács**, Sz. Malomsoky and H. Saito, "A Simple Adaptive Bandwidth Control for Real Traffic", *Advances in Performance Analysis*, 2(1):21-44, 1999