

## Short CV of Jorma Jormakka

### *Present academic affiliation:*

Docent of Aalto University, Department of Communications and Networks

### *Work experience:*

2010- Independent writer, researcher and software developer  
2005-2010 National Defence College, professor of military technology  
2000-2004 Helsinki University of Technology, professor of communication networks, 50%  
2000-2004 National Defence College, professor of command and control systems, 50%  
1997-1999 Lappeenranta University of Technology, professor of communication networks  
1994-1997 Helsinki TelCo, FINNET researcher  
1993-1994 Helsinki University of Technology, acting associate professor of communication networks,  
1992-1993 Lodz, Poland, independent software developer  
1991-1992 Helsinki University of Technology, acting associate professor and acting senior assistant,  
1989-1991 VTT, special researcher  
1987-1989 Nokia Data, Nokia Research Center, network expert  
1985-1987 University of Helsinki, Dept. of Mathematics, acting assistant  
1984-1984 University of Helsinki, SEFL, acting assistant  
1981-1983 Asea AB, Västerås, Sweden, systems designer

### *Highest academic degrees:*

Docent National Defence College, 2011-2016

Docent Helsinki University of Technology, 1997-

Doctor (PhD), Helsinki University, Department of Mathematics, 1988, Ph.D. dissertation:

J. Jormakka *The existence of quasiregular mappings from  $R^3$  to closed orientable 3-manifolds, Ann. Acad. Sci. Fenn. Series A, 69, Finnish Academy of Science, 1988, p. 1-44. Review also in Zentralblatt.*

### *10 scientific articles in international refereed scientific journals:*

1. J. Jormakka "Performance Analysis of ISMA/P," *IEEE Transactions of Vehicular Technology*, vol.52, no. 1, January 2003, p. 254-259.
2. J. Jormakka, J. Mölsä "Modelling Information Warfare as a Game," *Journal of Information Warfare*, vol.4, issue 2, September 2005, p. 12-25.
3. J. Jormakka "On finding Fermat's pairs," *Journal of Discrete Mathematical Sciences & Cryptography*. Vol.10, No. 3, June 2007, p. 402-413.
4. J. Jormakka "A Combinatorial Method of Computing Blocking in a Loss Network with Non-stationary Arrivals". *IUP Journal of Telecommunications*, Vol.2 No.3 August 2010, pp. 19-36. available, <http://papers.ssrn.com/abstracts=1683119>
5. A. Koskinen, J. Jormakka "Usability Monitoring – Extending Quality of Service Monitoring for Decision making," *Journal of Military Studies*, Vol 1, No 1, 2010, pp. 1-32.
6. J. Jormakka "Solutions to three-dimensional Navier-Stokes equations for incompressible fluids," *Electronic Journal of Differential Equations*, 2010, No 93, pp. 1-14.
7. T. Saarelainen, J. Jormakka "Interfacing collaboration and command tools for crises management to military command and control systems," *International Journal on Electronic Security and Digital Forensics (IJESDF)*, Vol 3, Issue 3, 2010, pp. 249-264.
8. J. Jormakka "A TDMA-based MAC protocol for Ad Hoc Networks," *IUP Journal of Telecommunications*, Feb 2011.
9. J. Jormakka, T. Saarelainen "UAV-based Sensor Networks for the Future Battlefield Warrior," *International Journal on Advances in Telecommunications*, 2011.
10. J. Jormakka, H. Jormakka "Revocation of User Certificates in a Military Ad Hoc Network," *ENIGMA - Brazilian Journal of Information Security and Cryptography*, Vol. 1, No. 1, Sep. 2014, pp. 14-23.