List of publications

Visa Koivunen, Prof., D.Sc. (EE)
IEEE Fellow

Peer-reviewed Journal Papers


Submitted

- Total of 6 other journal papers are under review currently

Peer-reviewed Book chapters


Refereed Papers in International Conferences


60. Kokkinen, Kari; Turunen, Vesa; Kosunen, Marko; Chaudhari, Sachin; Koivunen, Visa; Ryynanen, Jussi (2009) “FPGA implementation of autocorrelation-based feature detector for cognitive radio.”, NORCHIP, 2009 pp. 1 - 4


73. Pun, M.O., Koivunen V., and Poor, H.V. (2008) “SINR analysis of opportunistic MIMO-SDMA downlink systems with linear combining,” IEEE International Conference on Communications (ICC), Beijing, 2008,


**Refereed papers in Finnish Conferences**

- A few additional papers published in SPIE and STEP (Finnish Artificial Intelligence) conferences.

**Other reports**

- Richter, Andreas; Enescu, Mihai; Koivunen, Visa A State Space Approach to Propagation Path Parameter Estimation and Tracking. COST 273 temporary document vol. 5.
Educational Material

- Lecture Notes on Signals and Systems, Tampere Univ. of Technology, 170 pages + images, examples and exercises.
- Lecture Notes on Video Coding, Helsinki Univ. of Technology, 170 pages + images, examples and exercises.
- Lecture Notes on Selected topics in Communications Signal Processing, Helsinki Univ. of Technology, 170 pages + images, examples and exercises.
- Tutorial in IEEE ICASSP 2007, Circular and Non-circular complex random signals with applications in wireless communications. with Dr. Mikko Valkama.

Software


Patents

- US 7787548 Digital Broadcast Service Discovery Correlation, 09-18-2008
- US 7949357 Method and apparatus to select collaborating users in spectrum sensing, 06-11-2009
• US 20090197550 Correlation-based detection in a cognitive radio system, 08-06-2009

• US 20100120467 INTEROPERABILITY OF DIGITAL BROADCASTING AND CELLULAR COMMUNICATION SYSTEMS, 05-13-2010