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1 Monographs

1.1 Ph.D. Dissertations


1.2 D.Sc. Dissertation (Habilitationschrift)

P. Jung: Digitale zellulare Mobilkommunikation, Grundlagen und Beispiele. Department of Electrical Engineering, Kaiserslautern University, 1996.

1.3 Textbook


1.4 Edited Book


2 Publications in 2016


3 Publications in 2015


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### 4 Publications in 2014

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5 Publications in 2013


Signal Processing and Communication Systems ICSPCS 2013, Gold Coast, Australia December 16-18, 2013


6 Publications in 2012


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7 Publications in 2011


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<td>31</td>
<td>Zijian Bai, Biljana Badic, Stanislaus Iwelski, Tobias Scholand, Rajarajan Balraj, Peter Jung, and Guido Bruck.</td>
<td>“EMPFÄNGER UND VERFAHREN ZUM DETEKTIEREN EINES VORKODIERTE SIGNALS (filed)”</td>
<td>Pat. DE 10 2011 054 913.7</td>
<td>Intel Mobile Communications GmbH</td>
<td>2011-10-28</td>
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### 9 Journal Publications until 2009

#### 9.1 Invited Papers


9.2 Regular Papers


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46. Combined MIMO and network coding for wireless relay networks. IET Communications. Accepted for publication. Co-authors: Dong Xu, Zijian Bai, Andreas Waadt, Guido H. Bruck.

10 Patents and Published Patent Applications until 2009

10.1 Patents


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10.2 Published Patent Applications


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24. Verfahren zur Bestimmung des aktuellen Signal-zu-Rausch-Verhältnisses und zur Leistungsregelung in Mobilfunksystemen mit Codemultiplex. German patent


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75. Badic, Biljana; Bai, Zijian; Balraj, Rajarajan; Bruck, Guido Horst; Iwelski, Stanislaus; Jung, Peter; Scholand, Tobias. “VORRICHTUNG UND VERFAHREN ZUM DECODIEREN EINES EMPFANGENEN SIGNALS“. DE102013208363A1, 07.05.2013.
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### Conference Publications until 2009

#### 11.1 Invited Papers


4. A pragmatic approach to rate compatible Turbo-Codes for mobile radio applications. Sixth International Conference on Advances in Communications and Control (ComCon 6), Corfu (1997). Co-authors: F. Berens, Markus Doetsch, Jörg Plechinger.


35. A software defined radio realization of a multimedia HDTV receiver. Proceedings of the Second International Symposium on Applied Sciences in Biomedical and
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11.1.2 Solicited Papers

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**11.1.3 Regular Papers**


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<td>43</td>
<td>Downlink beamforming concepts in UTRA FDD. Tagungsband der Kleinheubacher Tagung (Kleinheubacher Berichte)</td>
<td>2003</td>
<td>M. Schacht, A. Dekorsy</td>
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<td>44</td>
<td>System capacity from UMTS smart antenna concepts.</td>
<td>Proceedings of the IEEE Vehicular Technology Conference (VTC2003-Fall), 6-9 October 2003, Orlando, USA.</td>
<td>M. Schacht, A. Dekorsy</td>
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65. Low-cost direction of arrival estimation in TD-SCDMA receivers with smart antennas. Proceedings of the Third IASTED International Conference on Communications and Computer Networks (CCN 2005), 24-26 October 2005, Marina del Rey, USA. Co-
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<td>77</td>
<td>On implementation aspects of fast iterative tap amplitude and delay estimation for UMTS/WCDMA</td>
<td>IASTED International Conference on Communication Systems and Applications (CSA-2006), July 3-5, 2006, Banff/Alberta, Canada</td>
<td>A. Burnic, T. Faber, T. Scholand</td>
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<td>83</td>
<td>FALCON, a software defined radio transceiver concept</td>
<td>Fifth IASTED International Conference on Communications Systems and Networks (CSN 2006), August 28-30, 2006, Palma de Mallorca, Spain</td>
<td>A. Vießmann, T. Scholand, A. Hessamian-Alinejad, A. Burnic, G.H. Bruck</td>
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<td>84</td>
<td>A fast iterative tap amplitude and delay estimator design for WCDMA</td>
<td>Fifth IASTED International Conference on Communications Systems and Networks (CSN 2006), August 28-30, 2006, Palma de Mallorca, Spain</td>
<td>A. Burnic, T.E. Faber, T. Scholand</td>
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<td>85</td>
<td>Applying zero-crossing demodulation to the Bluetooth enhanced data rate mode</td>
<td>The 17th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC2006), September 11-14, 2006, Helsinki, Finland</td>
<td>T. Scholand, C. Spiegel, A. Waadt, A. Burnic</td>
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<td>86</td>
<td>Error correction in impulsive noise environments by applying turbo codes</td>
<td>The 17th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC2006), September 11-14, 2006, Helsinki, Finland</td>
<td>T. Faber, T. Scholand</td>
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