

Publikationen von Zang, Yunpeng

• [Reviewed Journal Articles](#) • [Reviewed Conference Papers](#) • [Technical Reports](#) • [Miscellaneous](#)

Reviewed Journal Articles					
Authors	Title	Publisher	Month	Year	Download
Hiertz, G. and Zang, Y. and Max, S. and Junge, T. and Weiss, E. and Wolz, B. and Denteneer, D. and Berlemann, L. and Mangold, S.	{IEEE} 802.11s: {WLAN} {M}esh {S}tandardization and {H}igh {P}erformance {E}xtensions	In IEEE Network, Vol. 22, No. 3, p.p. 12--19, New York, USA,IEEE	05	2008	Info
Zang, Y. and Weiss, E. and Stibor, L. and Walke, B. and Chen, H. and Cheng, X.	Opportunistic Wireless Internet Access in Vehicular Environments Using Enhanced WAVE Devices	In International Journal of Hybrid Information Technology, Vol. 1, No. 2, p.p. 83-100, Korea,SERSC	04	2008	Info ± Download
Hiertz, G. and Zang, Y. and Kimyacioglu, K. and Reurmerman, H.-J.	Ultrabreitband - Schneller Kurzstreckenfunk	In c't - Magazin für Computertechnik, p.p. 210--215, Hannover, Germany,Heise Zeitschriften Verlag GmbH & Co. KG	09	2006	Info
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Zang, Y. and Stibor, L. and Reurmerman, H.-J. and Chen, H.	Wireless Local Danger Warning Using Inter-Vehicle Communications in Highway Scenarios	In Proceedings of European Wireless Conference 2008, p. 7, Prague, Czech Republic	06	2008	Info ± Download
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Hiertz, G. and Max, S. and Zang, Y. and Junge, T. and Denteneer, D.	{IEEE} 802.11s {MAC} {F}undamentals	In Proceedings of the MeshTech'07 -- , p.p. 1--8, Pisa, Italy	10	2007	Info ± Download
Zang, Y. and Stibor, L. and Walke, B. and Reurmerman, H.-J. and Barroso, A.	A Novel MAC Protocol for Throughput Sensitive Applications in Vehicular Environments	In Proceedings of IEEE 65th Vehicular Technology Conference VTC2007-Spring, p. 5,	04	2007	Info ± Download

		Dublin, Ireland			
Zang, Y. and Stibor, L. and Cheng, X. and Reurmerman, H.-J. and Paruzel, A. and Barroso, A.	Congestion Control in Wireless Networks for Vehicular Safety Applications	In Proceedings of The 8th European Wireless Conference, p. 7, Paris, France	04	2007	Info + Download
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Max, S. and Zang, Y.	OFDM-UWB Physical Layer Emulation for Event-based MAC Simulation	In Proceedings of the 17th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, p. 5, Helsinki, Finland	09	2006	Info + Download
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		p.p. 204--210, Nicosia, Cyprus			
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Stibor, L. and Zang, Y. and Reumerman, H.-J.	Lb81 Comment Resolution CI P 4	In IEEE 802.11 WLAN Working Group Session, May 2006, Vol. 11-06-0779-00-000p, p. 3, Jacksonville, Florida, USA,Online	05	2006	Info + Download
Aboul-Magd, O. and Abraham, S. and Agre, J. and Aoki, H. and Bahr, M. and Chari, N. and Cheng, R.-G. and Chu, L. and Conner, W. and Faccin, S. and Furukawa, H. and Gurevich, D. and Hares, S. and Hasty, V. and Hauser, J. and Hiertz, G. and Jetcheva, J. and Jou, T.-S. and Kado, Y. and Kangude, S. and Khieu, A. and Liu, L. and Mangold, S. and Mantri, V. and Rahman, S. and Rayment, S. and Saito, S. and Shagdar, O. and Sherman, M. and Shyy, D. and Taori, R. and Wang, W. and Yagi, A. and Yang, J.-S. and Yao, Z. and Zhang, B. and Zang, Y. and Zuniga, J.	Joint SEE-Mesh/Wi-Mesh Proposal to 802.11 TGs	In IEEE 802.11 WLAN Working Group Session, March 2006, No. 11-06-0329-03-000s, p. 77, Denver, USA,IEEE 802 Wireless World	03	2006	Info + Download
Aboul-Magd, O. and Abraham, S. and Agre, J. and Aoki, H. and Bahr, M. and Chari, N. and Cheng, R.-G. and Chu, L. and Conner, W. and Faccin, S. and Furukawa, H. and Gurevich, D. and Hares, S. and Hasty, V. and Hauser, J. and Hiertz, G. and	{J}oint {SEE-M}eshV{W}i- {M}esh {P}roposal to 802.11 {TG}s {C}hecklists	In IEEE 802.11 WLAN Working Group Session, March 2006, No. 11-06-0337-00-000s, p. 14, Denver, Colorado, USA	03	2006	Info

Jetcheva, J. and Jou, T.-S. and Kado, Y. and Kangude, S. and Khieu, A. and Liu, H. and Mangold, S. and Mantri, V. and Rahman, S. and Saito, S. and Shagdar, O. and Sherman, M. and Shyy, D. and Taori, R. and Wang, W. and Yagi, A. and Yang, J.-S. and Yao, Z. and Zang, Y. and Zhang, B. and Zuniga, J.					
Stibor, L. and Zang, Y. and Reurman, H.-J.	Congestion Control in IEEE 802.11p	In IEEE 802.11 WLAN Working Group Session, January 2006, Vol. 11-06-0135-02-000p, p. 16, Waikoloa Village, Hawai'i, USA,Online	01	2006	Info + Download
Stibor, L. and Zang, Y. and Hiertz, G. and Max, S. and Reurman, H.-J.	Vehicular Wireless Media Network (VWMN)	In IEEE 802.11 WLAN Working Group Session, January 2006, Vol. 15-06-0020-00-wng0, p. 16, Waikoloa Village, Hawai'i, USA,Online	01	2006	Info + Download
Hiertz, G. and Zang, Y. and Stibor, L. and Max, S. and Xie, Z. and Junge, T. and Reurman, H.-J. and Sánchez, J. and Habetha, J.	Mesh Networks Alliance (IEEE 802.11 TGs Proposal submission)	In IEEE 802.11 WLAN Working Group Session, November 2005, No. 11-05-0600-03-000s, p. 83, Vancouver, British Columbia, Canada	11	2005	Info + Download
Hiertz, G. and Zang, Y. and Stibor, L. and Max, S. and Xie, Z. and Junge, T. and Reurman, H.-J. and Sánchez, J. and Habetha, J.	Mesh Networks Alliance - 5min statement (IEEE 802.11 TGs Proposal submission)	In IEEE 802.11 WLAN Working Group Session, November 2005, No. 11-05-0788-02-000s, p. 37, Vancouver, British Columbia, Canada	11	2005	Info + Download
Hiertz, G. and Max, S. and Zang, Y. and Stibor, L. and Reurman, H.-J.	IEEE 802 Wireless Mesh Networks	In IEEE 802 Plenary Meeting, November 2005, No. 11-05-1163-00-000s, p. 29, Vancouver, British	11	2005	Info + Download

		Columbia, Canada			
Hiertz, G. and Zang, Y. and Stibor, L. and Max, S. and Junge, T. and Reurerman, H.-J. and Sánchez, J. and Habetha, J.	Mesh Networks Alliance (IEEE 802.11 TGs Proposal submission)	In IEEE 802.11 WLAN Working Group Session, September 2005, No. 11-05-0600-02-000s, p. 74, Garden Grove, California, USA	09	2005	Info + Download
Hiertz, G. and Zang, Y. and Stibor, L. and Max, S. and Junge, T. and Reurerman, H.-J. and Sánchez, J.	Mesh Networks Alliance - 5min statement (IEEE 802.11 TGs Proposal submission)	In IEEE 802.11 WLAN Working Group Session, September 2005, No. 11-05-0788-01-000s, p. 33, Garden Grove, California, USA	09	2005	Info + Download
Hiertz, G. and Zang, Y. and Stibor, L. and Max, S. and Reurerman, H.-J. and Sánchez, J. and Habetha, J.	Mesh Networks Alliance (IEEE 802.11 TGs Proposal submission)	In IEEE 802.11 WLAN Working Group Session, July 2005, No. 11-05-0600-01-000s, p. 41, San Francisco, California, USA	07	2005	Info + Download
Hiertz, G. and Zang, Y. and Stibor, L. and Max, S. and Reurerman, H.-J. and Sánchez, J.	Mesh Networks Alliance - 5min statement (IEEE 802.11 TGs Proposal submission)	In IEEE 802.11 WLAN Working Group Session, July 2005, No. 11-05-0788-00-000s, p. 12, San Francisco, California, USA	07	2005	Info + Download
Hiertz, G. and Zang, Y. and Stibor, L. and Max, S. and Sanchez, D. and Habetha, J.	Mesh Networks Alliance (MNA) - Proposal - IEEE 802.11s MAC Sublayer Functional Description - IEEE 802.11s Mesh WLAN Security (IEEE 802.11 Proposal Submission)	In IEEE 802.11 WLAN Working Group Session, July 2005, No. 11-05-0605-00-000s, p. 31, San Francisco, California, USA	06	2005	Info + Download
Hiertz, G. and Zang, Y. and Max, S.	Mesh PAN Alliance (MPA) (IEEE 802.15 Proposal Submission)	In IEEE 802.15 WLAN Working Group Session, May 2004, No. 15-05-0247-00-0005, p. 54, Cairns, Australia, IEEE 802 Wireless World	05	2005	Info + Download
Yang, L. and Yamada, A. and Chari, A. and Zaks, A. and Bahr, M. and Visscher, B. and Jose, B. and Conner, W. and Maniezzo, D. and Shyy, D. and	Issues for Mesh Media Access Coordination Component in 11s	In IEEE 802.11 WLAN Working Group Session, January 2005, No. 11-04-0968-13-000s, p. 9, Monterey, CA, USA	01	2005	Info

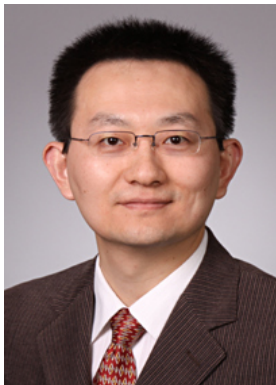
Hiertz, G. and Li, H. and Zuniga, J. and Yamada, K. and Au, K.-K.-K. and Audeh, M. and Aboul-Magd, O. and Ozer, S. and Vrzic, S. and So, T. and Hasty, V. and Jang, Y. and Jeong, Y. and Liu, Y. and Zang, Y. and Sadeghi, B. and Kruys, J. and Sastry, A.					
Hiertz, G. and Zang, Y. and Zhao, R. and Habetha, J. and Mangold, S.	Mesh networks: The benefits of interference awareness (IEEE 802.11 Standard Contribution)	In IEEE 802.11 WLAN Working Group Session, September 2004, No. 11-04-1075-00-000s, p. 25, Berlin, Federal Republic of Germany, IEEE 802 Wireless World	09	2004	Info ± Download
Hiertz, G. and Zang, Y. and Habetha, J.	Multi hop connections using 802.11 (IEEE 802.11 Standard Contribution)	In IEEE 802.11 WLAN Working Group Session, July 2004, No. 11-04-0709-02-000s, p. 17, Portland, OR, USA, IEEE 802 Wireless World	07	2004	Info ± Download
Hiertz, G. and Zang, Y. and Habetha, J.	Mesh networks for home entertainment (IEEE 802.11 Standard Contribution)	In IEEE 802.11 WLAN Working Group Session, May 2004, No. 11-04-0530-00-000s, p. 16, Orange County, Anaheim, CA, USA, IEEE 802 Wireless World	05	2004	Info ± Download
Miscellaneous					
Authors	Title	Publisher	Month	Year	Download
Zang, Y. and Sories, S. and Gehlen, G. and Walke, B.	Towards a European Solution for Networked Cars - Integration of Car-to-Car technology into cellular systems for vehicular communication in Europe	In The Fully Networked Car Workshop 2009, p. 14, Geneva, Switzerland	03	2009	Info ± Download
Zang, Y. and Weiss, E. and Stibor, L. and	Integration of Vehicular Communication Gateway and	In The Fully Networked Car Workshop 2007, p.		2007	Info ± Download

Reumerman, H.-J.	Car-to-Car communication for Future Vehicular Applications	14, Geneva, Switzerland			
Authors	Title	Publisher	Month	Year	Download
Hiertz, G. and Zang, Y. and Walke, B.	IEEE 802.15 Wireless Personal Area Networks	In IEEE 802 Wireless Systems: Protocols, Multi-Hop Mesh/Relaying, Performance and Spectrum Coexistence, p.p. 119 -- 146, Edited by Walke, Bernhard H. and Mangold, Stefan and Berlemann, Lars, Chichester, West Sussex, UK, John Wiley & Sons	11	2006	Info

Car-to-Car Communications

Wiss. Angestellter

M.Eng Yunpeng Zang



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Anschrift: Lehrstuhl für Kommunikationsnetze
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 D-52074 Aachen

Forschungsthemen:

Projects:

CoCar (Cooperative Cars) 2008-now: German BMBF funded project performing basic research for C2C and C2I communication for future cooperative applications using cellular mobile communication technologies. (In cooperation with Ericsson)

NextMesh 2007-2008: This was an industrial project in cooperation with Huawei Technology on wireless mesh network.

MYCAREVENT (MobilitY and CollAboRative work in European Vehicle Emergency NetWorks) 2006-2007: A 3-year research project is financed by the IST (Information Society Technology) program of the European Commission within the Sixth Framework Program and focussing on service development, process and organization management, e-business, communication networks as well as human-computer interaction.

WILLWARN (Wireless Local Danger Warning) 2005-2007: a subproject of the European integrated project PReVENT for Intelligent Transport System. (In cooperation with Philips)

WIGWAM (Wireless Gigabit with Advanced Multimedia Support) 2003-2005: toward the next generation of Gigabit wireless local and personal area networks. (Funded by German BMBF and in cooperation with Philips.)

Research interests:

- Vehicular Communications
 - ◆ Wireless Access in Vehicular Environments (WAVE): IEEE 802.11p & IEEE P1609
 - ◆ Vehicular MESH network (VMESH)
- High mobility wireless mesh networks
- Topology control in wireless ad-hoc networks
- Wireless Personal Area Networks (WPAN)
 - ◆ IEEE 802.15.3a/b/c
 - ◆ UWB based system: MBOA(MultiBand OFDM Alliance)/WiMedia
- Capacity of wireless ad-hoc networks

Lehrtätigkeit:

Laboratory: Mobile Radio Networks (MRN) 2005(SS), 2006(SS), 2007(SS), 2008(SS)

Diplomarbeitenangebote

- High Mobility Wireless Mesh Networks Based on Wireless Vehicular Communications,10-06-08,
- Gigabit Wireless Personal Area Networks (WPANs) for Multimedia Applications and MESH WPAN,02-04-08,
- The MAC layer Simulator for the Next Generation of Wireless Personal Area Network (WPAN),02-04-08,
- Study on Message Dissemination Algorithms for Cooperative Danger Warning Applications Based on Inter-Vehicle Communications,02-04-08,
- Congestion Control for Danger Warning Message Dissemination in Vehicular Ad-Hoc Networks (VANET),02-04-08,
- Test und Validierung ausgewählter Applikationen auf Basis von Fahrzeug-Fahrzeug-Kommunikation,02-04-08,

Studienarbeitenangebote

- High Mobility Wireless Mesh Networks Based on Wireless Vehicular Communications,10-06-08,
- Gigabit Wireless Personal Area Networks (WPANs) for Multimedia Applications and MESH WPAN,02-04-08,
- Error Model for Radio Transmission of MB-OFDM Based Wireless Personal Area Networks (WPANs),02-04-08,
- The MAC layer Simulator for the Next Generation of Wireless Personal Area Network (WPAN),02-04-08,
- Packet Error Ratio (PER) Evaluation of IEEE 802.11p Physical Layer in High Mobility Vehicle-to-Vehicle Wireless Radio Channels with MATLAB© SIMULINK© Model,02-04-08,

- Study on Message Dissemination Algorithms for Cooperative Danger Warning Applications Based on Inter-Vehicle Communications,02-04-08,
- Congestion Control for Danger Warning Message Dissemination in Vehicular Ad-Hoc Networks (VANET),02-04-08,
- Development of JAVA Based Graphic User Interface (GUI) for the Wireless Access Radio Protocol 2 (WARP2) Simulation Environment,02-04-08,

Angebote an HiWi-Stellen

- Development of JAVA Based Graphic User Interface (GUI) for the Wireless Access Radio Protocol 2 (WARP2) Simulation Environment,02-04-08,

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