

Annual Report of the McLeod Institute of Simulation Sciences

Center

2004- 2005 Annual Report of BUAA CENTER of MISS

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List of Research Activities & Projects - Subject - Type [Topic/Project] - Description - Year	Please see list 1
List of Educational - Title - Type [University Course/Professional Course] - Year	Please see list 2
Center publications	Please see list 3
Center simulation tools	AST-RTI ToolKit
Center highlights	Asia Simulation Conference 2005/the Sixth International Conference on System Simulation and Scientific Computing

list 1 Research Activities & Projects

Subject	Type	Reference	Years
Methodologies&Techniques	Topic	Bohu Li, Xingren Wang, Xiaoyuan Peng	2000-2005
Distributed Simulation	project	Bohu Li, Xingren Wang, Xiaoyuan Peng,	2000-2005
AI	project	Guanghong Gong, Liang Han	2000-2005
Virtual Prototyping,	project	Bohu Li, Xiaoyuan Peng,Xudong Cai	2000-2005
Virtual Reality	project	Bohu Li,, Shuling Dai	2000-2005
Training Systems	project	Xiaoyuan Peng,, Li Liu,Jiangyun Wang	2004-2005
Life Science (Virtual human)	Topic	Guanghong Gong, Qin Feng	2000-2005
Simulation System Framwork and surpport Platform	project	Guanghong Gong	2006-2008
Simulation System Framwork and surpport Platform	project	Bohu Li	2006-2010
Network Information War theory and its Simulation	project	Xiaoyuan Peng, Liang Han	2006-2008
The Commom Computer Gennerated Forces technology	Topic	Guanghong Gong	2006-2010
SNE and its Simulation	Topic	Xingren Wang,Jiangyun Wang	2006-2010
Application Research and development on Simulation Grid	project	Bohu Li, Xiaoyuan Peng,	2005-2006

List 2 Educational Activities

Title	Type	Reference	Years
Flight Real Time Simulation System and Technology	University Course	Li Liu□,Jiangyun Wang	2000-2006
Distributed Interacted Simulation	University Course	Liang Han□Guanghong Gong	2000-2006

VR Technology	University Course	Jin Zhang, Shuling Dai	2000-2006
Series Experiments of Advanced Simulation Technology	University Course	Xiaoyuan Peng, Li Liu, Jiangyun Wang, Ying Ding ,etc.	2004-2006
Advanced Simulation Technology	University Course	Liang Han □ Guanghong Gong	2000-2006
Virtual Technique and application	University Course	Fusheng Xiang	2000-2006
Electric Circuit	University Course	Guanghong Gong	2004-2006
Electronic Technique Basis	University Course	Liang Han	2000-2006
Micro-Computer Theory and Interface Technique	University Course	Li Liu, Xin Lin	2000-2006
C/C++ Language	University Course	Baosun Zhou	2000-2006

List 3 Publications

No	Title	Authors	Publication	Time
1	A New Infrastructure for Networkitized M&S	Bo Hu Li, Xudong Chai, Baocun Hou, Yanqiang Di, Haiyan Yu, Zhihui Du, Xiaoyuan Peng	The Proceedings of Asia Simulation Conference	October 2005
2	Application of Ontology in Integration of C4ISR/SIM Systems	Tan Juan, Li BoHu , Chai XuDon g	The Proceedings of Asia Simulation Conference	October 2005
3	Research on Key Technologies for Pervasive Simulation Grid	Baocun Hou, Bohu Li, Xudong Chai	The Proceedings of Asia Simulation Conference	October 2005

4	Use of Petri Nets for Virtual Prototyping Engineering Scheduling	Guoqiang Shi, Bohu Li, Xudong Chai	The Proceedings of Asia Simulation Conference	October 2005
5	Collaborative Simulation Technology Based Multidiscipline Modeling And Optimization Design Research For Virtual Prototype of Complex Products	Peng Wang □Bohu Li, Xudong Chai, Yanqiang Di	The Proceedings of Asia Simulation Conference	October 2005
6	Research and Practice of Model Management in Virtual Prototype Collaborative Simulation Platform	Zhao Jing□Bohu Li, Xudong Chai□etc.	The Proceedings of Asia Simulation Conference	October 2005
7	Research of Key Technologies on Virtual Prototype Lifecycle Management of Complex Products	Song Xiao□Bohu Li, Xudong Chai□etc.	The Proceedings of Asia Simulation Conference	October 2005
8	Research on XMSF, Journal of System Simulation	Tan Juan, Li BoHu, Chai XuDong,	Journal of System Simulation	No.1, 2006
9	Design and Realization on 3D Visualization Simulation of Attack and Defense Based on HLA	LI Yu-xiang, GONG Guang-hong	Journal of System Simulation	Vol. 17 No. 12□2005
10	Engineering Simulation Method of Variable Wind Field in Synthetic Natural Environment ; Journal of System Simulation	Liu Gang, Wang Xing-ren, Jia Rong-zhen	Journal of System Simulation	Vol. 18 No. 2□2006
11	Unmanned Aer ia l Veh ic le S imula t ion Tra in ing System	Sun Li-qing, Zhang Guo-feng, Wang Xing-ren	Computer Simulation	Vol□23 No□2□2006
12	Des ign and Implemen ta t ion of the Da ta M ode l and Da taba se in S imula t ion of Atmosphere	L IU Wei - hua,WANG Xing – ren	Computer Simulation	Vol□22, No□10,2005
13	Study on Support Environment of Distributed Complex System; Journal of System Simulation	Xu Yong-bo, Wang Xing-ren, Yu Ming-qing etc.	Journal of System Simulation	Vol. 17 No. 8,2005
14	Research and Implementation of Time Management Services in Distributed Simulation System, Journal of System Simulation	Xu Yong-bo, Hu Ya-hai, Wang Xing-ren etc.	Journal of System Simulation	Vol. 17 No. 7,2005

15	Integration and Application of Modeling Tools in Virtual Prototype Collaborative Modeling Environment	Zheng Hong-tao, Peng Xiao-yuan	Journal of System Simulation	Vol. 17 No. 11,2005
16	RTI Resource Management System over Grid; Journal of System Simulation	Xu Li-juan, Peng Xiao-yuan	Journal of System Simulation	Vol. 17 No. 8,2005
17	Key Technologies in Construction of Network-Centric Warfare Concept Based Virtual Battlefield;	Wang Zhou, Peng Xiao-yuan, Li Ning	Journal of System Simulation	Vol. 17 No. 6,2005
18	Design and Implementation of Data Logging Based on HLA System	Zhang Peng, GONG Guang-hong	Computer Simulation	Vol.22, No. z1□2005
19	Model Management In Computer Generate Force	MA Yao-fei□GONG Guang-hong□PENG Xiao-yuan□ZHOU-bo□WANG Ya-nan	Journal of System Simulation	Vol.17 No.6, 2005
20	Architecture and Model Framework of a Universal Computer Generated Forces System	ZHOU Bo, GONG Guanghong	The Proceedings of Asia Simulation Conference	October 2005
21	Research on the Airplane Intelligent Decision - making Modeling in Computer Generated Forces System	Yao Nan, Wang Jiang-yun	Computer Simulation	Vol.22, No. z1□2005
22	Research on the Airplane Intelligent Decision - making Modeling in Computer Generated Forces System	YAO Nan□WANG Jiang – yun	Computer Simulation	Vol.22, No. z1□2005
23	Research on the Airplane Intelligent Decision-making Modeling in Computer Generated Forces System,	YAO Nan□WANG Jiangyun	The Proceedings of Asia Simulation Conference	October 2005
24	Method of LBTS Passive Update for Time Management in HLA,	Xu Yongbo, Wang Xingren ,Li ni	The Proceedings of Asia Simulation Conference	October 2005
25	Collaborative Design Environment (CDE) for Dynamic Virtual Prototype of Aircraft,	LIU Gang, WANG Xingren, JIA Rongzhen	The Proceedings of Asia Simulation Conference	October 2005

26	Development of AST - RTI MOM	Lin Xin, WANG Xingren, JIA Rongzhen	Computer Simulation	Vol.22, No. z1 □2005
27	Research on Data Interaction in HLA-Based SNE Simulation System	SUN Liqing □ Wang Xingren	The Proceedings of Asia Simulation Conference	October 2005
28	Synthetic Display of Multi-dimensional Information in Computer Generated Forces,	LI Lingfei, GONG Guanghong, ZHOU Baoshun	The Proceedings of Asia Simulation Conference	October 2005
29	Journal of Beijing University of Aeronautics and Astronautics,	Bai Xiao-li, Han Liang	Journal of Beijing University of Aeronautics and Astronautics	Vol 31, No.8, 2005
30	Simulation Implementation of Flight Trajectory for Air - to - Ship Ballistic Missile	Kong De-yu, Han Liang	Computer Simulation	Vol.22, No. z1 □2005
31	Electronic Countermeasures Simulation in Air - defence System of Naval Vessel	Yang Wei-qiang, Han Liang	Computer Simulation	Vol.22, No. z1 □2005
32	Synthetic Display of Multi - dimensional Information in Computer Generated Forces	Li Ling-fei, Zhou Baoshun	Computer Simulation	Vol.22, No. z1 □2005
33	A Research on CGF Reasoning System Based on Fuzzy Petri Net,	MA Yaofei □ GONG Guanghong	The Proceedings of Asia Simulation Conference	October 2005
34	Neural network gain scheduling design for large envelope curve flight control law	Zhang Ping, Yang Xinyin, Chen Zong-ji	Journal of Beijing University of Aeronautics and Astronautics	Vol 31, No.6, 2005
35	Connection of Grid-based HLA/RTI Simulation Systems and Resources Sharing	Li Ni, Peng Xiaoyuan, Xu Lijuan	The Proceedings of Asia Simulation Conference	October 2005
36	A MVC-based Framework for Real-time Visual Simulation Applications	Chen Zheng, Peng Xiaoyuan	The Proceedings of Asia	October 2005

			Simulation Conference	
37	Grid Enabling Simulation Resources and the Assistant Toolkit Development	Xiao Zhen, Peng Xiaoyuan	The Proceedings of Asia Simulation Conference	October 2005
38	Service-oriented Extensible Modeling and Simulation Supporting Environment Research	Xu Lijuan, Peng Xiaoyuan, Li Ni	The Proceedings of Asia Simulation Conference	October 2005
39	Research on Visualization in the Simulation Grid	Cai Zhaihao, Peng Xiaoyuan	The Proceedings of Asia Simulation Conference	October 2005
40	Research on Framework of Virtual Prototyping Multidisciplinary Design Optimization and Simulation	Zheng Hongtao, Peng Xiaoyuan	The Proceedings of Asia Simulation Conference	October 2005
41	Multimedia Communication over HLA/RTI	Li Ning, Peng Xiao-Yuan, Zhang Min-Hu, Wang Mei, Gong Guang-Hong	Simulation Modelling Practice and Theory,	Vol.14, Iss.2, 2005
42	Image Transmission in Distributed Virtual Environment	Li Ning, Wang Rui, Zheng Hong-Tao, Peng Xiao-Yuan,	The Proceedings of Asia Simulation Conference	October 2005
43	Research on Construction and Interoperability of Complex Distributed Simulation System,	Li Ning, Wang Zhou, Liu Wei-Hua, Peng Xiao-Yuan, Gong Guang-Hong	Systems Modeling and Simulation: Theory and Applications,	Lecture Notes in Computer Science, Vol. 3398
44	Research on Self-synchronization in Network Centric Warfare Simulation	Wang Zhou., Li Ning., Peng Xiao-yuan.	The Proceedings of Asia Simulation Conference	October 2005
45	Technique for Dynamic Virtual Prototype of Aircraft	LIU Gang; WANG Xing-ren; JIA Rong-zhen,	Acta Aeronautica Et Astronautica Sinica	Vol.26 No.5 2005
46	Research Environment for Airplane Dynamic Virtual	Wang Jiang-yun, Wang Xing-ren, Liu	Journal of System	Vol.17 No.2,

	Prototyping	Gang	Simulation	2005
47	Study on Image Jittering in Visual System of Networked Flight Simulators	Xu Yong-bo, Wang Xing-ren, Jia Rong-zhen	Journal of System Simulation	Vol.17 No.2, 2005
48	Research on collaborative modeling & simulation platform for multi - disciplinary virtual prototype and its key technology	DI Yan - qiang ¹ , LI Bo - hu ¹ , C H A I X u - dong ² , W A N G Peng ¹	Computer Integrated Manufacturing Systems	Vol.11 No.7, 2005
49	Key Technologies in Construction of Network-Centric Warfare Concept Based Virtual Battlefield	WANG Zhou, PENG Xiao-yuan, LI Ning	Journal of System Simulation	Vol.17 No.6, 2005