

Mores Prachyabrued

Address

Faculty of ICT
Mahidol University
999 Puttamonthon Rd. Salaya
Nakhon Pathom 73170
Thailand

Tel: +66 2 441 0909
Fax: +66 2 849 6099
Email: mores.pra@mahidol.ac.th

Research Interests

Virtual Reality, 3D Interaction, Virtual Grasping, Virtual Training, Entertainment Computing

Professional Experience

Instructor, Faculty of ICT, Mahidol University, since Dec 2013

Director of ImmerSense Laboratory, Mahidol-Bremen Medical Informatics Research Unit, since Feb 2018

Program Chair, Master of Science in Game Technology and Gamification, Mahidol University, since 2014

Faculty Senate Representative, Faculty of ICT, Mahidol University, since 2017

Assistant Dean for Digital Media Technology and Learning, Faculty of ICT, Mahidol University, 2014 – 2017

Solution Specialist 2, Total Access Communication PCL Co., Ltd., 2000 – 2005

Education

Ph.D. (Computer Science), University of Louisiana at Lafayette, 2013

M.S. (Computer Science), University of Louisiana at Lafayette, 2007

M.E. (Computer Engineering), Kasetsart University, 2002

B.E. (Computer Engineering), Kasetsart University, 1998

Selected Honors

Winner, Innovation for Defence Technology Contest, 2017 (Advisor)

Runner-Up of the Applications for Promoting Learning Skills Category (โปรแกรมเพื่อส่งเสริมทักษะการเรียนรู้), National Software Contest, 2017 (Advisor)

US Embassy People's Choice Award, Microsoft Imagine Cup Thailand, 2016 (Advisor)

Runner-Up Best Paper, IEEE 3D User Interfaces, 2011

Winner of the Computer Thai Chess Competition, National Software Contest, 2000

Selected Professional Service

Reviewer: IEEE VR, IEEE 3D User Interfaces, ACM SIGCHI Advances in Computer Entertainment Technology, ACM SIGCHI Designing Interactive Systems

Visiting Researcher, Computer Graphics and Virtual Reality Research Group, University of Bremen, February 2017

Curriculum Reviewer for the Bachelor of Business Administration in Game and Esport Business, University of the Thai Chamber of Commerce, 2017

Organizing Committee, 13th Thailand Olympiad in Informatics, 2016-2017

Committee, Defence Technology Association, 2015-2017

Curriculum Reviewer for the Bachelor of Science in Games and Interactive Media, Bangkok University, 2016

Special Session Chair, The 1st Asian Conference on Defence Technology, 2015

Selected Research Grants

Office of the Higher Education Commission, 3D Training Field of Army Tactical Training Center, 2018–2019, 2,920,000 Baht (Co-researcher)

Mahidol University, A Virtual Reality Method for Stress Inoculation Training of Prehospital Healthcare Personnel, 2017–2018, 125,000 Baht **(PI)**

Mahidol University, Development of a SPOC Online Lesson on the MUx System: Business Writing (โครงการพัฒนามาตรเรียนออนไลน์แบบ SPOC ภายใต้ระบบ MUx), 2017–2018, 100,000 Baht **(PI)**

Office of the Higher Education Commission, Geo-database for Military and Security, 2016–2017, 3,800,000 Baht (Co-researcher)

Mahidol University, Development of a SPOC Online Lesson on the MUx System: Computer Applications, 2016–2017, 150,000 Baht **(PI)**

Defence Technology Institute, Development of a Computer-Assisted Instruction System for Military Weapons and Strategies (โครงการพัฒนาระบบสื่อคอมพิวเตอร์ช่วยสอนระบบอาวุธและยุทธวิธีทหาร สำหรับโครงการวิจัยและพัฒนาระบบสนามฝึกยิงปืนยุทธวิธีเสมือนจริง), 2014–2015, 2,300,000 Baht **(PI)**

BFKT Thailand, Design and Evaluation of a Chatbot for Customer Services, 2014–2015, 100,000 Baht **(PI)**

Selected Invited Talks and Keynote Addresses

Technology-Enhanced Learning Seminar, “Game Technology and Gamification”, Institute for Innovative Learning, Mahidol University, Aug 2018

MU-Bremen Symposium on ICT in Medicine and Public Health, “Virtual Reality Method for Stress Inoculation Training of Prehospital Healthcare Personnel”, Faculty of ICT, Mahidol University, Feb 2018

Publication Statistics

Journal Articles: 4

Conference Papers: 12

Citations: Google Scholar: 189 with h-index of 9

Scopus: 76 (excluding self-citations) with h-index of 5

Selected Publications (Full publication list: <http://mucc.mahidol.ac.th/~mores.pra>)

M. Prachyabrued, D. Wattanadhirach, R. B. Dudrow, N. Krairojananan, and P. Fuengfoo. Toward Virtual Stress Inoculation Training of Prehospital Healthcare Personnel: A Stress-Inducing Environment Design and Investigation of an Emotional Connection Factor. *To Appear in Proceedings of IEEE Virtual Reality and 3D User Interfaces*, 2019.

P. Mongkolwat, **M. Prachyabrued**, T. Siriapisith, and T. K. Shih. A Perspective on the Needs for Simulation and Gaming Technology in Outpatient Care. *To Appear in Neo-Simulation and Gaming Toward Active Learning (Lecture Notes in Computer Science)*, 2019.

M. Prachyabrued and O. Robert. Development of Attack Helicopter Simulator. *Proceedings of the 5th Asian Conference on Defence Technology*, pp. 31-36, 2018.

M. Prachyabrued and C. W. Borst. Design and Evaluation of Visual Interpenetration Cues in Virtual Grasping. *IEEE Transactions on Visualization and Computer Graphics*, 22(6):1718-1731, Jun 2016.

M. Prachyabrued and C. W. Borst. Visual Feedback for Virtual Grasping. *Proceedings of IEEE 3D User Interfaces*, pp. 19-26, 2014. **(Top 4 Best Papers)**

M. Prachyabrued and C. W. Borst. Effects and Optimization of Visual-Proprioceptive Discrepancy Reduction for Virtual Grasping. *Proceedings of IEEE 3D User Interfaces*, pp. 11-14, 2013.

C. W. Borst and **M. Prachyabrued**. Nonuniform and Adaptive Coupling Stiffness for Virtual Grasping. *Proceedings of IEEE Virtual Reality*, pp. 35-38, 2013.

M. Prachyabrued and C. W. Borst. Virtual Grasp Release Method and Evaluation. *International Journal of Human-Computer Studies*, 70(11):828-848, Nov 2012. **(Invited)**

T. L. Chambers, A. Aglawe, D. Reiners, S. A. White, C. W. Borst, **M. Prachyabrued**, and A. Bajpayee. Real-Time Simulation for a Virtual Reality-Based MIG Welding Training System. *Virtual Reality Journal*, 16(1):45-55, Mar 2012.

M. Prachyabrued and C. W. Borst. Visual Interpenetration Tradeoffs in Whole-Hand Virtual Grasping. *Proceedings of IEEE 3D User Interfaces*, pp. 39-42, 2012.

M. Prachyabrued and C. W. Borst. Dropping the Ball: Releasing a Virtual Grasp. *Proceedings of IEEE 3D User Interfaces*, pp. 59-66, 2011. **(Runner-Up Best Paper, Cover Image)**

S. A. White, **M. Prachyabrued**, T. L. Chambers, C. W. Borst, and D. Reiners. Low-Cost Simulated MIG Welding for Advancement in Technical Training. *Virtual Reality Journal*, 15(1):69-81, Mar 2011.

M. Prachyabrued, D. Ducrest, and C. W. Borst. Handymap: A Selection Interface for Cluttered VR Environments Using a Tracked Hand-held Touch Device. *Proceedings of International Symposium on Visual Computing*, pp. 45-54, 2011.

M. Prachyabrued, T. E. Roden, and R. G. Benton. Procedural Generation of Stylized 2D Maps. *Proceedings of ACM SIGCHI Advances in Computer Entertainment Technology*, pp. 147-150, 2007.