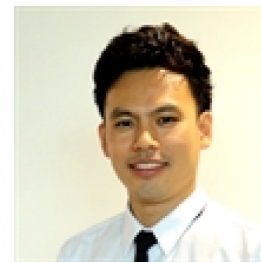


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Stability analysis of a hexapod robot driven by distributed nonlinear oscillators with a phase modulation mechanism

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Manoonpong, P., Goldschmidt, D., Wörgötter, F., Kovalev, A., Heepe, L. & Gorb, S., 1. aug. 2013, *Biomimetic and Biohybrid Systems - Second International Conference, Living Machines 2013, Proceedings*. s. 402-404 3 s. (Lecture Notes in Computer Science, Bind 8064 LNAI).

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Neural Control and Adaptive Neural Forward Models for Insect-like, Energy-Efficient, and Adaptable Locomotion of Walking Machines

Manoonpong, P., Parlitz, U. & Wörgötter, F., 21. jan. 2013, I: *Frontiers in Neural Circuits*. 7, 28 s., 12.

Neural control of a three-legged reconfigurable robot with omnidirectional wheels

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Obstacle/gap detection and terrain classification of walking robots based on a 2D laser range finder

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A Neuromechanical Controller of a Hexapod Robot for Walking on Sponge, Gravel and Snow Surfaces.

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Information Dynamics based Self-Adaptive Reservoir for Delay Temporal Memory Tasks

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Dasgupta, S., Wörgötter, F. & Manoonpong, P., 1. dec. 2012, *Engineering Applications of Neural Networks - 13th International Conference, EANN 2012, Proceedings*. Yue, S. & Iliadis, L. (red.). s. 31-40 10 s. (Communications in Computer and Information Science, Bind 311).

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A Virtual Musculoskeletal Model for Variable Compliance and Joint Stabilization of a Walking Hexapod

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A reconfigurable spherical robot

Chadil, N., Phadoongsidhi, M., Suwannasit, K., Manoonpong, P. & Laksanacharoen, P., 1. dec. 2011, *2011 IEEE International Conference on Robotics and Automation, ICRA 2011*. s. 2380-2385 6 s. 5979756. (IEEE International Conference on Robotics and Automation).

A PZT modeling for energy harvesting circuits

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Extraction of reward-related feature space using correlation-based and reward-based learning methods

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Biological inspiration for mechanical design and control of autonomous walking robots: towards life-like robots

Manoonpong, P., Wörgötter, F. & Pasemann, F., 2010, *International Journal of Applied Biomedical Engineering* . 3, 1, s. 1-12 12 s.

Using Efference Copy and a Forward Internal Model for Adaptive Biped Walking

Schröder-Schetelig, J., Manoonpong, P. & Wörgötter, F., 2010, *Autonomous Robots*. 29, 3-4, s. 357-366

Adaptive sensor-driven neural control for learning in walking machines

Manoonpong, P. & Wörgötter, F., 1. dec. 2009, *Neural Information Processing - 16th International Conference, ICONIP 2009, Proceedings*. PART 2 udg. s. 47-55 9 s. (Lecture Notes in Computer Science; Nr. PART 2, Bind 5864 LNCS).

The development of a biomechanical leg system and its neural control

Renjewski, D., Seyfarth, A., Manoonpong, P. & Wörgötter, F., 1. dec. 2009, *2009 IEEE International Conference on Robotics and Biomimetics, ROBIO 2009*. s. 1894-1899 6 s. 5420535

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Renjewski, D., Seyfarth, A., Manoonpong, P. & Wörgötter, F., 1. dec. 2008, *Advances in Mobile Robotics - Proceedings of the 11th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines, CLAWAR 2008*. s. 630-637 8 s.

Neural control and learning for versatile, adaptive, autonomous behavior of walking machines

Manoonpong, P. & Wörgötter, F., 1. dec. 2008, *Proceedings - 2008 International Conference on Advanced Computer Theory and Engineering, ICACTE 2008*. s. 24-28 5 s. 4736917

Sensor-Driven Neural Control for Omnidirectional Locomotion and Versatile Reactive Behaviors of Walking Machines

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Dynamical systems in the sensorimotor loop: On the interrelation between internal and external mechanisms of evolved robot behavior

Hülse, M., Wischmann, S., Manoonpong, P., Von Twickel, A. & Pasemann, F., 20. dec. 2007, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Lungarella, M., Pfeifer, R., Iida, F. & Bongard, J. (red.). s. 186-195 10 s. (Lecture Notes in Computer Science, Bind 4850 LNAI).

Neural Preprocessing and Control of ReactiveWalking Machines: Towards Versatile Artificial Perception-Action Systems

Manoonpong, P., 1. dec. 2007, *Neural Preprocessing and Control of ReactiveWalking Machines: Towards Versatile Artificial Perception-Action Systems*. Manoonpong, P. (red.). (Cognitive Technologies , Bind 17).

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Manoonpong, P., Geng, T., Porr, B. & Wörgötter, F., 27. sep. 2007, *Proceedings - IEEE International Symposium on Circuits and Systems*. s. 1181-1184 4 s. (Proceedings of the IEEE International Symposium on Circuits and Systems).

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Manoonpong, P., Geng, T., Kulvicius, T., Porr, B. & Wörgötter, F., 2007, I: *PLOS Computational Biology*. 3, 7, s. 1305-1320

Modular reactive neurocontrol for biologically-inspired walking machines

Manoonpong, P., Pasemann, F. & Roth, H., 2007, I: *The International Journal of Robotics Research*. 26, 3, s. 301-331

Neural Preprocessing and Control of Reactive Walking Machines: Towards Versatile Artificial Perception-Action Systems

Manoonpong, P., 2007, 2007 udg. Springer. 188 s. (Cognitive Technologies).

Reactive Neural Control for Phototaxis and Obstacle Avoidance Behavior of Walking Machines

Manoonpong, P., Pasemann, F. & Wörgötter, F., 2007, I: *International Journal of Mechanical Systems Science and Engineering*. 1, 3, s. 172-177

Exploring the dynamic walking range of the biped robot "RunBot" with an active upper-body component

Wörgötter, F., Geng, T. & Manoonpong, P., 1. dec. 2006, *Proceedings of the 2006 6th IEEE-RAS International Conference on Humanoid Robots, HUMANOIDS*. s. 418-424 7 s. 4115636

A modular neurocontroller for a sensor-driven reactive behavior of biologically inspired walking machines

Manoonpong, P., Pasemann, F. & Roth, H., 2006, I: *International Journal of Computing*. 5, 3, s. 75-86

Modular neural control for a reactive behavior of walking machines

Manoonpong, P., Pasemann, F. & Fischer, J., 12. dec. 2005, s. 403-408. 6 s.

Neural processing of auditory signals and modular neural control for sound tropism of walking machines

Manoonpong, P., Pasemann, F., Fischer, J. & Roth, H., 2005, I: *International Journal of Advanced Robotic Systems*. 2, 3, s. 223-234

Priser

Sky Talent (“长空英才”)

Manoonpong, P. (Modtager), 2018

The Scandinavian Guest Professorship (Skandinavische Gastdozentur)

Manoonpong, P. (Modtager), 2015

Projekter

DLife: A dung beetle's life: how miniature creatures perform extraordinary feats with limited resources

Manoonpong, P. (PI) & Larsen, J. (Co-PI)

01/11/2017 → 31/10/2021

Health-CAT: Health Care Assisting Technology

Manoonpong, P. (Projektdeltager), Bodenhagen, L. (Koordinator), Juel, W. K. (Projektdeltager), Haarslev, F. (Projektdeltager), Palinko, O. (Projektdeltager), Krüger, N. (Projektdeltager), Kollakidou, A. (Projektdeltager) & Naik, L. (Projektdeltager)

01/02/2017 → 15/11/2020

SMOOTH: Innovation fund Denmark: Seamless huMan-robot interactiOn fOr THE support of elderly people

Krüger, N. (Overordnet koordinator) & Manoonpong, P. (PI)

01/04/2017 → 31/03/2020

NEUrorobotic Technology for advanced Robot mOtor coNtrol

Manoonpong, P. (Overordnet koordinator)

01/05/2018 → 30/04/2021

Plan4Act: Predictive Neural Information for Proactive Actions: From Monkey Brain to Smart House Control

Manoonpong, P. (PI) & Larsen, J. (Col)

01/01/2017 → 31/12/2020

SMOOTH: Seamless huMan-robot interactiOn fOr THE support of elderly people

Bodenhausen, L. (Projektdeltager), Palinko, O. (Projektdeltager), Manoonpong, P. (Projektdeltager), Haarslev, F. (Projektdeltager), Krüger, N. (Koordinator), Juel, W. K. (Projektdeltager), Kollakidou, A. (Projektdeltager) & Naik, L. (Projektdeltager)

01/04/2017 → 31/01/2021

SpikeCPG

Larsen, L. B. (PI), Strohmer, B. (Ph.d.-studerende) & Manoonpong, P. (Vejleder)

01/02/2019 → 28/02/2022

Undervisning og vejledning**Adaptive embodied locomotion control systems**

Manoonpong, P.

01/09/2014 → ...

Bachelor, Master, PhD supervisions

Manoonpong, P.

01/01/2012 → ...

Bio-inspired Autonomous Systems (RM-BAS)

Jørgensen, J., Abbasi, A. R., Christensen, A., Xiong, X. & Manoonpong, P.

01/02/2022 → 30/06/2022

Bio-inspired Autonomous Systems (RM-BAS)

Jørgensen, J., Christensen, A., Abbasi, A. R., Manoonpong, P., Xiong, X., Shaikh, D. & Rano, I.

01/02/2021 → 30/06/2021

MSc thesis: Communication Through Softness — a Visual Aid for Handovers in Collaborative Robotics (40 ECTS)

Jørgensen, J. & Manoonpong, P.

01/09/2020 → 01/06/2021

RT-UAR Underactuated Robotics

Larsen, L. B. & Herp, J.
01/02/2018 → 01/06/2018

Tools of Artificial intelligence

Manoonpong, P.
01/02/2014 → ...

Aktiviteter

PhD examination committee

Manoonpong, P. (Eksaminator)
21. feb. 2020

Censor of Master thesis

Manoonpong, P. (Eksaminator)
17. jan. 2020

Frontiers in Robotics and AI (Tidsskrift)

Manoonpong, P. (Peer reviewer)
2020

Human-Robot Interaction for Medical Robotics (Online lecture)

Manoonpong, P. (Underviser)
2020

Embodied neural mechanisms for adaptive, versatile, autonomous behaviors of bio-inspired walking robots

Manoonpong, P. (Underviser)
23. dec. 2019

NEUTRON: NEUrorobotic Technology for advanced Robot mOtor control

Manoonpong, P. (Underviser)
7. jun. 2019

Mathematics and Robotics: From Numbers to Complex Robot Behaviors & Learning

Manoonpong, P. (Underviser)
15. maj 2019

Embodied neural mechanisms for adaptive, versatile, autonomous behaviors of bio-inspired walking robots

Manoonpong, P. (Underviser)
11. apr. 2019

PhD examination committee

Manoonpong, P. (Eksaminator)
7. jan. 2019

DLife: Dung beetle-inspired robot development

Manoonpong, P. (Underviser)
2019

Frontiers in Neurorobotics (Tidsskrift)

Manoonpong, P. (Peer reviewer)
2019

IEEE (Ekstern organisation)

Manoonpong, P. (Medlem)
2019

The Youth Commission of International Society of Bionic Engineering (Ekstern organisation)

Manoonpong, P. (Medlem)
2019

NEUrorobotic Technology for advanced Robot mOtor control (NEUTRON)

Manoonpong, P. (Underviser)
4. dec. 2018

Bio-inspired Artificial Intelligence for Service Robots

Manoonpong, P. (Underviser)
21. nov. 2018 → 24. nov. 2018

Robotic technology for the elderly and the disabled

Manoonpong, P. (Underviser)
1. jun. 2018

Neural locomotion control of walking robots

Manoonpong, P. (Underviser)
18. maj 2018

Adaptive Behavior (Tidsskrift)

Manoonpong, P. (Peer reviewer)
2018

Frontiers in Neurorobotics (Tidsskrift)

Manoonpong, P. (Peer reviewer)
2018

The 2nd International Youth Conference of Bionic Engineering (IYCBE2018)

Manoonpong, P. (Deltager)
2018

The first joint workshop on Biology-inspired robotics and Robotics-inspired Biology (BIRIB)

Manoonpong, P. (Deltager)
2018

Exploiting frictional anisotropy from a scale-like material for energy-efficient robot locomotion

Manoonpong, P. (Underviser)
13. dec. 2017 → 17. dec. 2017

From a dung beetle to a multifunctional robot: A bio-inspired approach

Manoonpong, P. (Underviser)
29. okt. 2017

Exploiting frictional anisotropy from a passive scale-like material for energy-efficient locomotion of a bio-inspired walking robot

Manoonpong, P. (Underviser)
28. jun. 2017

Workshop on Bio-inspired Robotics

Larsen, J. C. (Arrangør) & Manoonpong, P. (Arrangør)
24. jun. 2017

Building neural circuits for bio-inspired bodies

Manoonpong, P. (Underviser)
15. jun. 2017

Enhanced Locomotion Efficiency of a Bio-inspired Walking Robot using Contact Surfaces with Frictional Anisotropy

Manoonpong, P. (Underviser)
13. jun. 2017 → 14. jun. 2017

Bio-inspired Robotics: From Biology to Technology

Manoonpong, P. (Underviser)
5. jan. 2017

Intelligent Robots: Machines that Act, Learn and Adapt by themselves.

Manoonpong, P. (Foredragsholder)
8. dec. 2016

Embodied AI & Neurorobotics

Manoonpong, P. (Foredragsholder)
25. nov. 2016

Learning from a Dung beetle to Advance Robot Development

Manoonpong, P. (Foredragsholder)
10. nov. 2016

Bio-inspired adaptive combinatorial learning for goal-directed behaviors

Manoonpong, P. (Foredragsholder)
8. nov. 2016

Embodied neural mechanisms for adaptive, versatile, autonomous behaviors of bio-inspired walking robots

Manoonpong, P. (Foredragsholder)
28. sep. 2016

PhD examination committee

Manoonpong, P. (Eksaminator)
16. sep. 2016

Exploiting Neural Mechanisms: "From neural dynamics and synaptic plasticity to adaptive locomotion: An embodied neural computation approach"

Manoonpong, P. (Oplægsholder)
23. aug. 2016

Exploiting Soft Materials, Biomechanical Structures, and Neural Mechanisms for Adaptive Locomotion: Lessons Learned From Nature

Manoonpong, P. (Arrangør)
23. aug. 2016

The 14th International Conference on the Simulation of Adaptive Behavior

Larsen, J. C. (Arrangør) & Manoonpong, P. (Arrangør)
23. aug. 2016

Biologically inspired robots

Manoonpong, P. (Foredragsholder)
5. jun. 2016 → 9. jun. 2016

Reinforcement Learning

Manoonpong, P. (Foredragsholder)
14. apr. 2016

Locomotion in invertebrates and robots

Manoonpong, P. (Andet)
9. mar. 2016

Tools of Artificial intelligence (RMAI2-U1)

Manoonpong, P. (Foredragsholder)
5. feb. 2016 → ...

Embodied neural computation for locomotion and navigation of insect-like robots

Manoonpong, P. (Foredragsholder)
21. jan. 2016

Frontiers in Neurorobotics (Tidsskrift)

Manoonpong, P. (Redaktør)
2016

Bio-inspired robotics for the factory of the future

Manoonpong, P. (Oplægsholder)
15. dec. 2015

Sharing experience & knowledge

Manoonpong, P. (Oplægsholder)
14. dec. 2015

Locomotion in invertebrates and robots

Manoonpong, P. (Deltager)
25. nov. 2015 → 26. nov. 2015

PhD thesis examiner

Manoonpong, P. (Rådgiver)
19. nov. 2015

From Neural Dynamics and Synaptic Plasticity to Complex Behaviors: An Embodied Neural Computation Approach

Manoonpong, P. (Foredragsholder)
18. nov. 2015

Neural Dynamics and Synaptic Plasticity

Manoonpong, P. (Foredragsholder)
18. nov. 2015

Building neural circuits for complex behaviors of walking robots

Manoonpong, P. (Foredragsholder)
17. nov. 2015

Neural Control, Learning, and Memory for Complex Behaviors of Bio-inspired Walking Machines

Manoonpong, P. (Oplægsholder)

2. nov. 2015

Embodied Artificial Intelligence

Manoonpong, P. (Andet)

nov. 2015 → feb. 2016

Embodied sensorimotor interaction: from locomotion to collective behavior workshop

Manoonpong, P. (Arrangør)

28. okt. 2015

Plasticity in a recurrent neural network for complex behaviors of a walking robot

Manoonpong, P. (Oplægsholder)

28. okt. 2015

Self-organized sensorimotor coordination for adaptive locomotion of artificial behaving machines

Manoonpong, P. (Foredragsholder)

27. okt. 2015

Christian-Albrechts-University Kiel

Manoonpong, P. (Gæsteforsker)

1. okt. 2015 → 29. feb. 2016

Adaptive Embodied Locomotion Control Systems (RMAI3-U1)

Manoonpong, P. (Foredragsholder)

4. sep. 2015 → ...

Project in Artificial Intelligence (RMAI4-U1)

Manoonpong, P. (Foredragsholder)

sep. 2015 → ...

Robotic technology

Manoonpong, P. (Oplægsholder)

3. aug. 2015

How to do research

Manoonpong, P. (Foredragsholder)

aug. 2015 → ...

Bio-inspired robotics

Manoonpong, P. (Foredragsholder)

22. jul. 2015

Bio-inspired robotics

Manoonpong, P. (Foredragsholder)

14. jul. 2015

King Mongkut's University of Technology Thonburi (KMUTT)

Manoonpong, P. (Gæsteforsker)

21. jun. 2015 → 17. aug. 2015

Multiple Decoupled CPGs with Local Sensory Feedback for Adaptive Locomotion Behaviors of Bio-inspired Walking Robots

Manoonpong, P. (Oplægsholder)

29. maj 2015

Embodied Artificial Intelligence Workshop

Manoonpong, P. (Oplægsholder)

11. maj 2015

Reinforcement Learning

Manoonpong, P. (Foredragsholder)

22. apr. 2015

Tools of Artificial intelligence (RMAI2-U1)

Manoonpong, P. (Foredragsholder)

6. feb. 2015 → ...

Bio-inspired Robots

Manoonpong, P. (Foredragsholder)

8. jan. 2015

Bachelor thesis co-supervisor & co-examiner

Manoonpong, P. (Rådgiver)

2015

Frontiers in Neurorobotics (Tidsskrift)

Manoonpong, P. (Associeret redaktør)

2015 → ...

Frontiers in Neurorobotics (Tidsskrift)

Manoonpong, P. (Associeret redaktør)

2015

Neural Control, Learning, and Memory of Bio-inspired Walking Robots

Manoonpong, P. (Foredragsholder)

18. dec. 2014

Neural Control, Learning, and Memory for Complex Behaviors of Autonomous Walking Robots

Manoonpong, P. (Foredragsholder)

21. nov. 2014

Adaptive Embodied Locomotion Control Systems (RMAI3-U1)

Manoonpong, P. (Foredragsholder)

2014 → ...

Tools of Artificial intelligence (RMAI2-U1)

Manoonpong, P. (Foredragsholder)

2014 → ...

Advances in Robotics Research (Tidsskrift)

Manoonpong, P. (Medlem af redaktionelt review bestyrelse)

2013 → ...

International Journal of Advanced Robotic Systems (Tidsskrift)

Manoonpong, P. (Medlem af redaktionelt review bestyrelse)

2013 → ...

