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Distributed-force-feedback-based reflex with online learning for adaptive quadruped motor control
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Online sensorimotor learning and adaptation for inverse dynamics control

Editorial: Integrated Multi-modal and Sensorimotor Coordination for Enhanced Human-Robot Interaction


A Low-Cost, Compact, Sealed, Three-axis Force/Torque Sensor for Walking Robots

Getting grip in changing environments: the effect of friction anisotropy inversion on robot locomotion

Integrating Non-spiking Interneurons in Spiking Neural Networks

A Variable Soft Finger Exoskeleton for Quantifying Fatigue-induced Mechanical Impedance

No Need for Landmarks: An Embodied Neural Controller for Robust Insect-like Navigation Behaviors

Autobot for Effective Design Space Exploration and Agile Generation of RBFNN Hardware Accelerator in Embedded Real-Time Computing

Adaptive parallel reflex- and decoupled CPG-based control for complex bipedal locomotion
Decoding EEG Rhythms during Action Observation, Motor Imagery, and Execution for Standing and Sitting

Generic Mechanism for Waveform Regulation and Synchronization of Oscillators: An Application for Robot Behavior Diversity Generation

Framework for developing bio-inspired morphologies for walking robots

End-to-End Rapid FPGA Prototyping for Embedded Proactive BMI Control

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Virtual Motoneuron Activation for Goal-directed Locomotion of a Hexapod Robot

Generic Neural Locomotion Control Framework for Legged Robots

General Distributed Neural Control and Sensory Adaptation for Self-Organized Locomotion and Fast Adaptation to Damage of Walking Robots

Flexible Spiking CPGs for Online Manipulation During Hexapod Walking

Rules for the Leg Coordination of Dung Beetle Ball Rolling Behaviour

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AHEAD: Automatic holistic energy-aware design methodology for MLP neural network hardware generation in proactive BMI edge devices
Hybrid soft-rigid foot with dry adhesive material designed for a gecko-inspired climbing robot

SMOOTH Robot: Design for a novel modular welfare robot

A Single-Channel Consumer-Grade EEG Device for Brain-Computer Interface: Enhancing Detection of SSVEP and Its Amplitude Modulation

Small-Sized Reconfigurable Quadruped Robot With Multiple Sensory Feedback for Studying Adaptive and Versatile Behaviors

An Explicit Local and Global Representation Disentanglement Framework with Applications in Deep Clustering and Unsupervised Object Detection

Adaptive Neural Control for Efficient Rhythmic Movement Generation and Online Frequency Adaptation of a Compliant Robot Arm

Adaptive Neural CPG-Based Control for a Soft Robotic Tentacle

Adaptive Neuromechanical Control for Robust Behaviors of Bio-Inspired Walking Robots

Dynamical State Forcing on Central Pattern Generators for Efficient Robot Locomotion Control

Editorial: Biology-Inspired Engineering and Engineering-Inspired Biology

ICrawl: An Inchworm-Inspired Crawling Robot
Integrating Non-Spiking Interneurons in Spiking Neural Networks

Investigating Partner Diversification Methods in Cooperative Multi-agent Deep Reinforcement Learning

Online adaptive resistance control of an arm exercise exoskeleton

Neural Control for Gait Generation and Adaptation of a Gecko Robot

A fast online frequency adaptation mechanism for cpg-based robot motion control

Haptic Feedback with a Reservoir Computing-Based Recurrent Neural Network for Multiple Terrain Classification of a Walking Robot

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**The SMOOTH Robot: Design for a Novel Modular Welfare Robot**


**A bio-inspired climbing robot with flexible pads and claws**


**Inversion of friction anisotropy in a bioinspired asymmetrically structured surface**


**Cylindrical Terrain Classification Using a Compliant Robot Foot with a Flexible Tactile-Array Sensor for Legged Robots**


**Development of a real-time motor-imagery-based EEG brain-machine interface**


**Neural Control and Synaptic Plasticity for Adaptive Obstacle Avoidance of Autonomous Drones**


**Online Gait Adaptation of a Hexapod Robot Using an Improved Artificial Hormone Mechanism**


**Locokit III: A versatile robotic platform to study embodied locomotion**

A Neural Circuit for Acoustic Navigation combining Heterosynaptic and Non-synaptic Plasticity that learns Stable Trajectories

A Neurocomputational Model of Goal-Directed Navigation in Insect-Inspired Artificial Agents

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Individual Patient Support on Lower Leg Orthoses by Continuous Control over the Whole Gait Cycle

Modular Neural Control for Object Transportation of a Bio-inspired Hexapod Robot

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Learning and Chaining of Motor Primitives for Goal-directed Locomotion of a Snake-Like Robot with Screw-Drive Units

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

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

The RunBot architecture for adaptive, fast, dynamic walking

Adaptive, Fast Walking in a Biped Robot under Neuronal Control and Learning

Modular reactive neurocontrol for biologically-inspired walking machines

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Priser
Sky Talent ("长空英才")
Manoonpong, Poramate (Modtager), 2018

The Scandinavian Guest Professorship (Skandinavische Gastdozentur)
Manoonpong, Poramate (Modtager), 2015

Projekter
DLife: A dung beetle's life: how miniature creatures perform extraordinary feats with limited resources
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01/11/2017 → 31/10/2021

Health-CAT: Health Care Assisting Technology
01/02/2017 → 15/11/2020

SMOOTH: Innovation fund Denmark: Seamless huMan-robot interactiOn fOr THe support of elderly people
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01/04/2017 → 31/03/2020

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01/05/2018 → 30/04/2021

Plan4Act: Predictive Neural Information for Proactive Actions: From Monkey Brain to Smart House Control
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SpikeCPG
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01/02/2019 → 28/02/2022

Undervisning og vejledning
Adaptive embodied locomotion control systems
Poramate Manoonpong
01/09/2014 → ...

Bachelor, Master, PhD supervisions
Poramate Manoonpong
01/01/2012 → ...

RT-UAR Underactuated Robotics
Leon Bonde Larsen & Jürgen Herp
01/02/2018 → 01/06/2018

Tools of Artificial intelligence
Poramate Manoonpong
01/02/2014 → ...

Aktiviteter
PhD examination committee
Poramate Manoonpong (Eksaminator)
21. feb. 2020

Censor of Master thesis
Poramate Manoonpong (Eksaminator)
17. jan. 2020

Frontiers in Robotics and AI (Tidsskrift)
Poramate Manoonpong (Peer reviewer)
2020

Human-Robot Interaction for Medical Robotics (Online lecture)
Poramate Manoonpong (Underviser)
2020

Embodied neural mechanisms for adaptive, versatile, autonomous behaviors of bio-inspired walking robots
Poramate Manoonpong (Underviser)
23. dec. 2019

NEUTRON: NEUrorobotic Technology for advanced Robot motor control
Poramate Manoonpong (Underviser)
7. jun. 2019
Mathematics and Robotics: From Numbers to Complex Robot Behaviors & Learning
Poramate Manoonpong (Underviser)
15. maj 2019

Embodied neural mechanisms for adaptive, versatile, autonomous behaviors of bio-inspired walking robots
Poramate Manoonpong (Underviser)
11. apr. 2019

PhD examination committee
Poramate Manoonpong (Eksaminator)
7. jan. 2019

DLife: Dung beetle-inspired robot development
Poramate Manoonpong (Underviser)
2019

Frontiers in Neurorobotics (Tidsskrift)
Poramate Manoonpong (Peer reviewer)
2019

IEEE (Ekstern organisation)
Poramate Manoonpong (Medlem)
2019

The Youth Commission of International Society of Bionic Engineering (Ekstern organisation)
Poramate Manoonpong (Medlem)
2019

NEUrorobotic Technology for advanced Robot mOtor control (NEUTRON)
Poramate Manoonpong (Underviser)
4. dec. 2018

Bio-inspired Artificial Intelligence for Service Robots
Poramate Manoonpong (Underviser)
21. nov. 2018 → 24. nov. 2018

Robotic technology for the elderly and the disabled
Poramate Manoonpong (Underviser)
1. jun. 2018

Neural locomotion control of walking robots
Poramate Manoonpong (Underviser)
18. maj 2018

Adaptive Behavior (Tidsskrift)
Poramate Manoonpong (Peer reviewer)
2018

Frontiers in Neurorobotics (Tidsskrift)
Poramate Manoonpong (Peer reviewer)
2018

The 2nd International Youth Conference of Bionic Engineering (IYCBE2018)
Poramate Manoonpong (Deltager)
2018
The first joint workshop on Biology-inspired robotics and Robotics-inspired Biology (BIRIB)
Poramate Manoonpong (Deltager)
2018

Exploiting frictional anisotropy from a scale-like material for energy-efficient robot locomotion
Poramate Manoonpong (Underviser)
13. dec. 2017 → 17. dec. 2017

From a dung beetle to a multifunctional robot: A bio-inspired approach
Poramate Manoonpong (Underviser)
29. okt. 2017

Exploiting frictional anisotropy from a passive scale-like material for energy-efficient locomotion of a bio-inspired walking robot
Poramate Manoonpong (Underviser)
28. jun. 2017

Workshop on Bio-inspired Robotics
Jørgen Christian Larsen (Arrangør) & Poramate Manoonpong (Arrangør)
24. jun. 2017

Building neural circuits for bio-inspired bodies
Poramate Manoonpong (Underviser)
15. jun. 2017

Enhanced Locomotion Efficiency of a Bio-inspired Walking Robot using Contact Surfaces with Frictional Anisotropy
Poramate Manoonpong (Underviser)

Bio-inspired Robotics: From Biology to Technology
Poramate Manoonpong (Underviser)
5. jan. 2017

Intelligent Robots: Machines that Act, Learn and Adapt by themselves.
Poramate Manoonpong (Foredragsholder)
8. dec. 2016

Embodied AI & Neurorobotics
Poramate Manoonpong (Foredragsholder)
25. nov. 2016

Learning from a Dung beetle to Advance Robot Development
Poramate Manoonpong (Foredragsholder)
10. nov. 2016

Bio-inspired adaptive combinatorial learning for goal-directed behaviors
Poramate Manoonpong (Foredragsholder)
8. nov. 2016

Embodied neural mechanisms for adaptive, versatile, autonomous behaviors of bio-inspired walking robots
Poramate Manoonpong (Foredragsholder)
PhD examination committee
Poramate Manoonpong (Eksaminator)

Exploiting Neural Mechanisms: “From neural dynamics and synaptic plasticity to adaptive locomotion: An embodied neural computation approach”
Poramate Manoonpong (Oplægsholder)
23. aug. 2016

Poramate Manoonpong (Arrangør)
23. aug. 2016

The 14th International Conference on the Simulation of Adaptive Behavior
Jørgen Christian Larsen (Arranger) & Poramate Manoonpong (Arrangør)
23. aug. 2016

Biologically inspired robots
Poramate Manoonpong (Foredragsholder)

Reinforcement Learning
Poramate Manoonpong (Foredragsholder)

Locomotion in invertebrates and robots
Poramate Manoonpong (Andet)

Tools of Artificial Intelligence (RMAI2-U1)
Poramate Manoonpong (Foredragsholder)
5. feb. 2016 – …

Embodied neural computation for locomotion and navigation of insect-like robots
Poramate Manoonpong (Foredragsholder)

Research topic on Neural Computation in Embodied Closed-Loop Systems for the Generation of Complex Behavior: From Biology to Technology (Tidsskrift)
Poramate Manoonpong (Redaktør)
2016

Bio-inspired robotics for the factory of the future
Poramate Manoonpong (Oplægsholder)
15. dec. 2015

Sharing experience & knowledge
Poramate Manoonpong (Oplægsholder)
14. dec. 2015

Locomotion in invertebrates and robots
Poramate Manoonpong (Deltager)
25. nov. 2015 – 26. nov. 2015
PhD thesis examiner
Poramate Manoonpong (Rådgiver)
19. nov. 2015

From Neural Dynamics and Synaptic Plasticity to Complex Behaviors: An Embodied Neural Computation Approach
Poramate Manoonpong (Foredragsholder)
18. nov. 2015

Neural Dynamics and Synaptic Plasticity
Poramate Manoonpong (Foredragsholder)
18. nov. 2015

Building neural circuits for complex behaviors of walking robots
Poramate Manoonpong (Foredragsholder)
17. nov. 2015

Neural Control, Learning, and Memory for Complex Behaviors of Bio-inspired Walking Machines
Poramate Manoonpong (Oplægsholder)
2. nov. 2015

Embodied Artificial Intelligence
Poramate Manoonpong (Andet)
nov. 2015 → feb. 2016

Embodied sensorimotor interaction: from locomotion to collective behavior workshop
Poramate Manoonpong (Arrangør)
28. okt. 2015

Plasticity in a recurrent neural network for complex behaviors of a walking robot
Poramate Manoonpong (Oplægsholder)
28. okt. 2015

Self-organized sensorimotor coordination for adaptive locomotion of artificial behaving machines
Poramate Manoonpong (Foredragsholder)
27. okt. 2015

Christian-Albrechts-University Kiel
Poramate Manoonpong (Gæsteforsker)

Adaptive Embodied Locomotion Control Systems (RMAI3-U1)
Poramate Manoonpong (Foredragsholder)
4. sep. 2015 → …

Project in Artificial Intelligence (RMAI4-U1)
Poramate Manoonpong (Foredragsholder)
sep. 2015 → …

Robotic technology
Poramate Manoonpong (Oplægsholder)
3. aug. 2015
How to do research
Poramate Manoonpong (Foredragsholder)
aug. 2015 → …

Bio-inspired robotics
Poramate Manoonpong (Foredragsholder)
22. jul. 2015

Bio-inspired robotics
Poramate Manoonpong (Foredragsholder)
14. jul. 2015

King Mongkut’s University of Technology Thonburi (KMUTT)
Poramate Manoonpong (Gæsteforsker)
21. jun. 2015 → 17. aug. 2015

Multiple Decoupled CPGs with Local Sensory Feedback for Adaptive Locomotion Behaviors of Bio-inspired Walking Robots
Poramate Manoonpong (Oplægsholder)
29. maj 2015

Embodied Artificial Intelligence Workshop
Poramate Manoonpong (Oplægsholder)
11. maj 2015

Reinforcement Learning
Poramate Manoonpong (Foredragsholder)
22. apr. 2015

Tools of Artificial intelligence (RMAI2-U1)
Poramate Manoonpong (Foredragsholder)
6. feb. 2015 → …

Bio-inspired Robots
Poramate Manoonpong (Foredragsholder)
8. jan. 2015

Associate Editor of Frontiers in Neurorobotics (Tidsskrift)
Poramate Manoonpong (Redaktør)
2015 → …

Associate Editor of Frontiers in Neurorobotics (Tidsskrift)
Poramate Manoonpong (Peer reviewer)
2015

Bachelor thesis co-supervisor & co-examiner
Poramate Manoonpong (Rådgiver)
2015

Neural Control, Learning, and Memory of Bio-inspired Walking Robots
Poramate Manoonpong (Foredragsholder)
18. dec. 2014

Neural Control, Learning, and Memory for Complex Behaviors of Autonomous Walking Robots
Poramate Manoonpong (Foredragsholder)
Adaptive Embodied Locomotion Control Systems (RMAI3-U1)
Poramate Manoonpong (Foredragsholder)
2014 → ...

Tools of Artificial intelligence (RMAI2-U1)
Poramate Manoonpong (Foredragsholder)
2014 → ...

Editorial Board of Advances in Robotics Research (ARR) (Tidsskrift)
Poramate Manoonpong (Peer reviewer)
2013 → ...

Editorial Board of International Journal of Advanced Robotic Systems (Tidsskrift)
Poramate Manoonpong (Peer reviewer)
2013 → ...