INTERNATIONAL CALL FOR ABSTRACTS

1st TEMPER workshop
Training Enhancement and Military PERformance

13-14 February 2020
University of New South Wales at
Australian Defence Force Academy, Canberra

Updates: www.unsw.adfa.edu.au/conferences/TEMPER
Info: m.cappuccio@unsw.edu.au

The Values in Defence and Security Technology group (VDST) invites researchers and professional practitioners to submit abstracts to the inaugural TEMPER workshop dedicated to cognitive enhancement and human performance in military training. The workshop will be held on 13-14 February 2020 at University of New South Wales at Australian Defence Force Academy in Canberra.

TEMPER is designed to transfer scientific expertise, training & preparation methods, and technological know-how among academics and practitioners working for the military and the sports industry. As excellence in military training importantly draws on psychological methods, sophisticated cognitive models, and technological innovations, the workshop focuses on the improvement of the warfighter's skills and cognitive abilities through training, exercise, and augmentation.

<h1 style="text-align:center">CONFIRMED SPEAKERS*</h1>

Damian Birney (Cognitive and Individual Differences Training Lab, University of Sydney)
https://sydney.edu.au/science/about/our-people/academic-staff/damian-birney.html

Monique Crane (CEPET, Macquarie University)
https://researchers.mq.edu.au/en/persons/monique-crane

Steve Fiore (Cognitive Science Laboratory, University of Central Florida)
https://csl.ist.ucf.edu/People.aspx

Gerald F. Goodwin (U.S. Army Research Institute, Fort Belvoir)
https://www.researchgate.net/profile/Gerald_Goodwin

Daniel D. Hutto (Minds in Skilled Performance, University of Wollongong)
https://scholars.uow.edu.au/display/daniel_d_hutto

Jesús Ilundáin-Agurruza (Philosophy Department, Linfield College)
https://www.linfield.edu/philosophy/faculty.html

Michael D. Kirchhoff (Minds in Skilled Performance, University of Wollongong)
https://scholars.uow.edu.au/display/michael_kirchhoff

Ian Langford (Future Land Warfare, Army Headquarters)
https://www.army.gov.au/brigadier-ian-langford-dsc-and-bars

Nadine Marcus (School of Computer Science, University of New South Wales)
https://research.unsw.edu.au/people/associate-professor-nadine-marcus

Rich Masters (School of Health, Waikato University)
https://www.waikato.ac.nz/staff-profiles/people/rmasters

Kenneth Murray (Armiger Police Training Institute)
http://www.theppsc.org/Staff/Murray/Ken.htm

Gert-Jan Pepping (School of Behavioural & Health Sciences,
Australian Catholic University)
https://rexr.acu.edu.au/framework/browse.php?srperid=6480

Miriam Reiner (Virtual Reality and Neurocognition Lab, Technion and Stanford University)
https://www.researchgate.net/profile/Miriam_Reiner

Darcy Schnack (Center for Enhanced Performance, U.S. Military Academy at Westpoint)
https://westpoint.edu/center-enhanced-performance/profile/darcy_schnack

*Last updated: 5 November 2019.

THEMES

Four thematic areas will be prioritized in the panel discussions and parallel sessions:
(1) Enhanced skill acquisition methods;
(2) Performance under pressure and resilience;
(3) Situational awareness and decision under risk;
(4) Team performance optimization and analysis (including human-agent teams).

TOPICS

TEMPER primarily focuses on military applications. The speakers are encouraged to link their presentations to scientific advances in sport & performance psychology and embodied cognition theory. Topics include but are not limited to the following:

Analytics and quantitative methods in human performance
Augmented reality and holographic goggles
Biological and neuronal markers
Bio and neurofeedback-based accelerated training techniques
Communication in special operations
Extended perception through sensors and sensory-substitution/integration
Flow states and motivation
Fluid intelligence and cognitive performance assessment methods
Human-robot interaction and coordination
Infantry tactical coordination
Long-term concentration and focus techniques for radar personnel
Marksmanship: high performance and improved training
Martial arts and combat techniques
Mental flexibility and decision under uncertainty
Mission preparation in digitally simulated scenarios
Moral injury and burnout
Multi-task coordination
Nutrition and cognitive performance
Performance under pressure and fear management
Post-traumatic stress
Proprioceptive feedback in prostheses and exoskeletons
Quiet eye and visual attention in air force pilots
Resilience
Selection of military personnel based on cognitive skills and aptitudes
Situation awareness and enhanced perception
Skill acquisition and automatization
Team cohesion, morale and self-efficacy
Technologies for cognitive and physical enhancement
Telepresence and simulated bodies in military operations
Underwater missions' psychophysical preparation
Warfighter's deontology, between ethics and psychology

ABSTRACT SUBMISSION

We encourage researchers and practitioners to submit a 350-700 word abstract for consideration. Presentations will be organized into thematic sessions. Abstracts must be submitted on-line through the TEMPER website by 31 December 2019:
https://www.unsw.adfa.edu.au/conferences/TEMPER
Only if the submission webpage is unavailable, send your abstract to:
m.cappuccio@unsw.edu.au
Notification of acceptance will be communicated by 7 January 2020.

REGISTRATION

Registration is now open and closes on 31 January 2020. Registration incurs a fee of $80 for each of the two days of the workshop. The concessionary fee ($40 per day) is available to university students and members of the Armed Forces. Registration fee is waived for students and faculty members of ADFA and UNSW. The social dinner on 13 February 2020 is optional and incurs an additional $85 fee. Fees must be paid online before the beginning of the workshop. To register, please use the registration link available in the TEMPER website:
https://unswcanberra.eventsair.com/temper-workshop-2020/register/Site/Register

VENUE

The workshop's venue is Adams Auditorium, Australian Defence Force Academy (ADFA) campus, Northcott drive, Campbell ACT 2612. ADFA campus is located only 10 minutes from Canberra airport and 5 minutes from the Australian War Memorial. Access to WiFi is available on site. A map of directions to Campus and the Campus map can be found here:
https://www.unsw.adfa.edu.au/about-us/our-campus/location

SOCIAL DINNER

The dinner will be held at The Promenade Café - Hyatt Hotel Canberra, on 13 February 2020, starting 6pm. Registration is mandatory and incurs a $85 fee.
https://www.hyatt.com/en-US/hotel/australia/hyatt-hotel-canberra-a-park-hyatt-hotel/canbe/maps-parking-transportation

ACCOMMODATION

Numerous hotels and motels are available at driving distance from ADFA campus, either in Canberra (5-minute drive) or Queanbeyan (15-minute drive). Early reservation is recommended as hotels in Canberra city centre are expected to be heavily booked due to the scheduled sittings of the Australian Parliament.

FURTHER INFORMATION

For further information about the workshop please contact Dr Max Cappuccio (m.cappuccio@unsw.edu.au).

UNSW CANBERRA | Values in Defence & Security Technology Group

TEMPER is brought to you by Values in Defence and Security Technology (VDST) group
https://www.unsw.adfa.edu.au/school-of-engineering-and-information-technology/vdst