Call for Papers
IEEE Aerospace and Electronic Systems Magazine

Special Issue on
Hypersonic Weapons: Threat and Defence

The IEEE Aerospace and Electronic Systems Society (AESS) Magazine invites scholars, researchers, and industry professionals to submit papers for a special issue dedicated to the rapidly evolving domain of "Hypersonic Weapons: Threat and Defence". This issue is intended to be an outlet for the state-of-the-art regarding sensors for Hypersonic Missile Defence (HMD) as well as for platform/on-board sensors. The special issue will provide new insights into the latest developments, challenges, and opportunities in this crucial field of aerospace defence technology.

The emergence of hypersonic weapons has disrupted the traditional paradigms of global security and defence. Capable of achieving speeds over Mach 5 and being highly manoeuvrable, these weapons pose a significant and complex threat. They challenge existing defence systems and necessitate innovation in threat detection, tracking, interception, and mitigation technologies. This special issue seeks high-quality original research and review articles that shed light on these aspects, bringing together theoretical analyses, empirical studies, and practical applications.

Submissions may cover the following topics, including, but not limited to:

Hypersonic Weapons Technologies: Advancements in missile guidance systems
Threat Analysis: Examination of the potential threats posed by hypersonic weapons, including their impact on current defence architectures and doctrines
Defensive Strategies and Technologies: Development and deployment of systems capable of detecting, tracking, and neutralizing hypersonic threats
Policy and Regulation: International policies, treaties, and regulations on hypersonic weapons

Manuscript submission deadline:	**30 November 2023**
· First review completed:	31 January 2024
· Revised manuscript due:	28 February 2024
· Second review completed:	30 April 2024
· Final manuscript due:	31 May 2024

We strongly encourage you to submit your recent work. We provide a link to author instructions:
http://sysaes.msubmit.net/cgi-bin/main.plex?form_type=do_cat&file_nm=info.htm

Special Guest Editors:

Daniel W. O'Hagan (Fraunhofer FHR), Michael Brandfass (Hensoldt), Georg Bahmeier (AMDC), Andreas Schmidt (NATO JAPCC), Nico de Bruijn (Thales)

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