Call for Contributions

1. Inform the Chair: with the title of your contribution
2. Submission URL:
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICAS+2025+Special
Please select Track Preference as **AIAC**

3. Note: *For 2025, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on-site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Special track

AIAC: AI and Autonomic Computing

Chair

Roy Sterritt
School of Computing, Faculty of Computing, Engineering and the Built Environment, Belfast Campus
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along with

ICAS 2025: The Twenty-First International Conference on Autonomic and Autonomous Systems
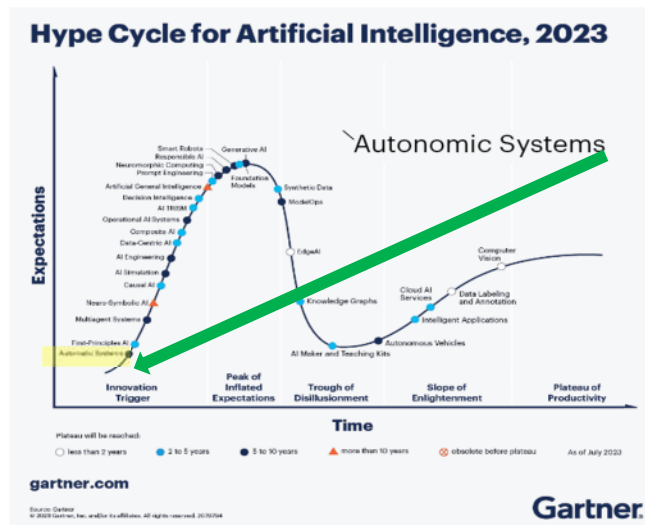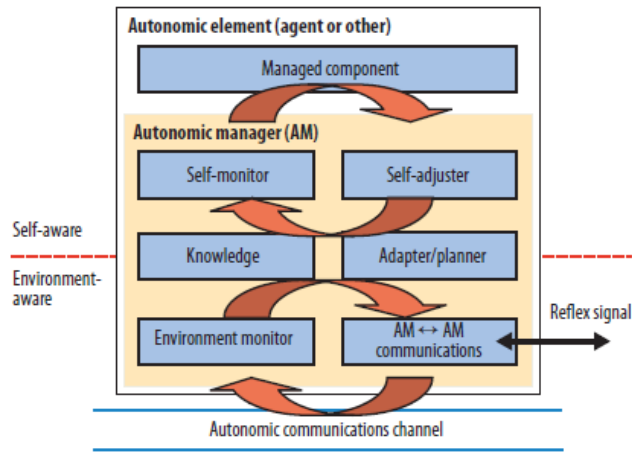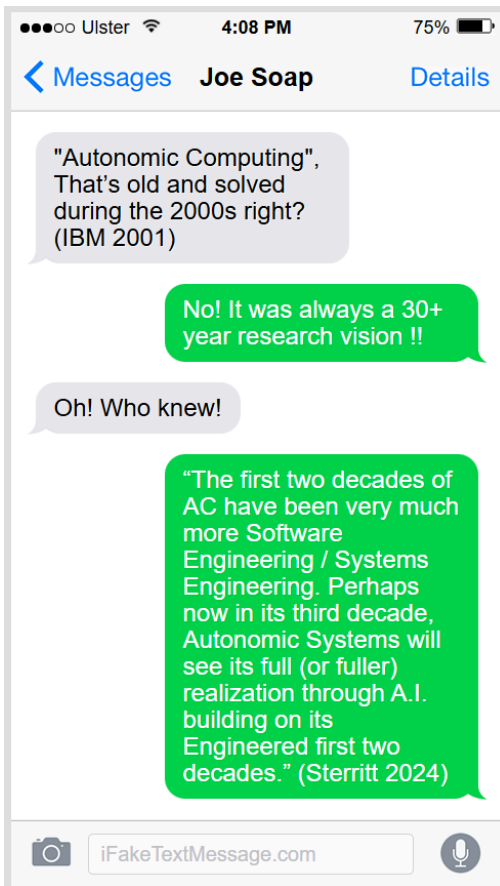March 09 - 13, 2025 - Lisbon, Portugal
https://www.iaria.org/conferences2025/ICAS25.html

Snapshot: AI and Autonomic Computing (AIAC)

"***Autonomic systems*** *are examples of accelerated AI automation. They are self-managing physical or software systems, performing domain-bounded tasks that exhibit three fundamental characteristics: autonomy, learning and agency. When traditional AI techniques aren't able to achieve business adaptability, flexibility and agility, autonomic systems can be successful in helping with implementation. Autonomic systems will take five to ten years until mainstream adoption but will be transformational to organizations.*"[1.]

1. L. Perri, "What's New in the 2022 Gartner Hype Cycle for Emerging Technologies", Gartner, Online: https://www.gartner.com/en/articles/what-s-new-in-the-2022-gartner-hype-cycle-for-emerging-technologies, August 10, 2022.

Prospective authors are invited to submit original papers on topics including, but not limited to

- AI for Autonomic Computing
- Autonomic Computing for AI
- Utilizing ML (Machine Learning) and computational modeling for achieving Autonomicity.
- Creating self-managing systems in AI methods, methodologies; examples, case studies.
- Industrial Applications; Network Management, Self-Healing Systems, Autonomous Vehicles, Predictive Maintenance, etc.
- Self-*s; self-regulate, self-optimize, self-protect, self-heal, self-sufficiency, self-reliant, etc.

Contribution Types
- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Important Deadlines

Inform the Chair or Coordinator: As soon as you decide to contribute

  Submission: Jan 18, 2025
  Notification: Feb 7, 2025
  Registration: Feb 20, 2025
  Camera-ready: Feb 20, 2025

Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chairs.

Paper Format

- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

Publications

- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.org
- Print proceedings will be available via Curran Associates, Inc.: http://www.proceedings.com/9769.html
- Articles will be archived in the Open Access ThinkMind Digital Library: http://www.thinkmind.org

Paper Submission

https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICAS+2025+Special
Please select Track Preference as **AIAC**

Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at http://www.iaria.org/registration.html

Contact

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Logistics (Steve McGuire): steve@iaria.org