



ΑΡΙΣΤΟΤΕΛΕΙΟ
ΠΑΝΕΠΙΣΤΗΜΙΟ
ΘΕΣΣΑΛΟΝΙΚΗΣ

ΣΕΜΙΝΑΡΙΟ ΤΜΗΜΑ ΦΥΣΙΚΗΣ

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Αίθουσα Α₃₁

Κύκλος σεμιναρίων

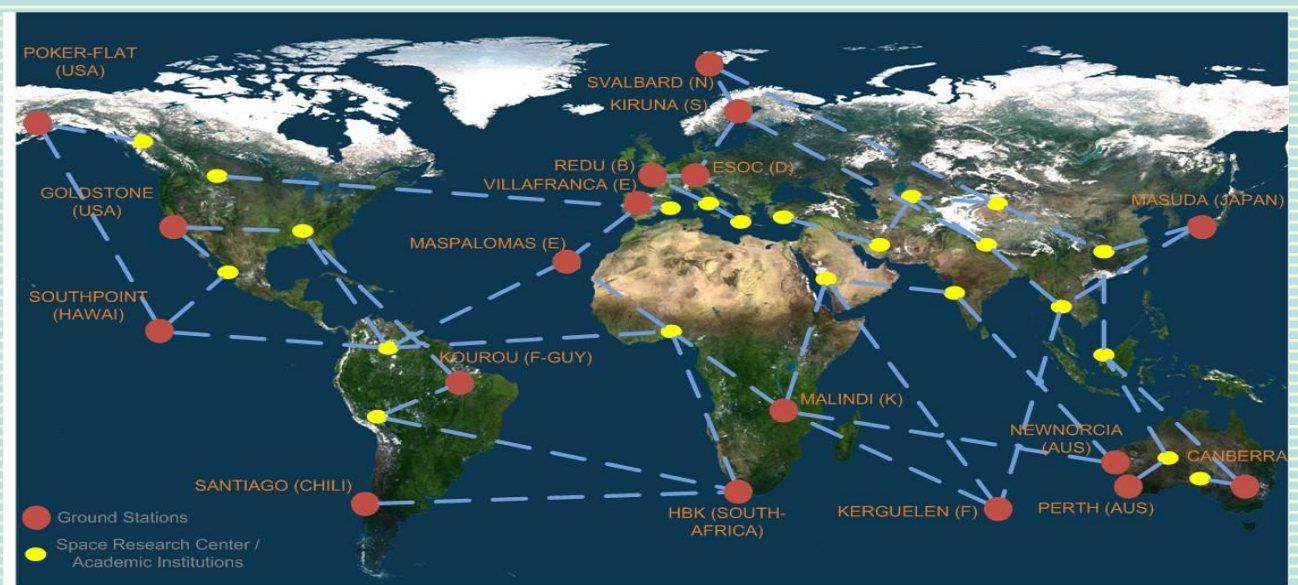


... ένα ταξίδι
σύγχρονης

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Delay Tolerant Networking, and an implementation for disseminating and exploiting scientific data



Anastasios Malkotsis
Director of Space Internetworks Ltd

Delay Tolerant Networking (DTN) is an emerging technology to support a new era in Terrestrial and Space communications, especially for communications in Deep Space, for interconnecting Space Agency assets on Earth and for communications in stressed terrestrial environments. Internet expands functionally and geographically beyond its current boundaries and loses its end to end nature. DTN offers Internet new properties by the store and forward architecture, which now emphasizes on storage instead of temporary buffering, by the custody transfer, where responsibility is gradually shifted towards the destination, and by the interoperability of heterogeneous networks. DTN becomes a standard architecture included in both CCSDS (Consultative Committee for Space Data Systems) and IETF standardization procedures. The FP7 funded "Space-Data Routers" project, is an example of Delay Tolerant Networking for exploiting space data.

Το προφίλ του ομιλητή



Anastasios Malkotsis is the founder and Director of Space Internetworks Ltd a dynamic innovative SME with significant expertise in Delay/Disruption Tolerant Networking (DTN), a cutting-edge emerging technology for space (interplanetary) as well as terrestrial (military and civil) communications. SI participates in significant projects of the 7th Frame Program as well as of the European Space Agency (ESA). SI currently participates in the "Space-Data Routers for Exploiting Space Data" project funded by FP7 and in the DTNator project funded by ESA as part of the "Multi-Purpose End-to-End Robotic Operation Network" (METERON) project, which forms an experimental architecture for the validation of human-robotic operations from space using the International Space Station (ISS). Anastasios graduated from the Physics Department of Aristotle University of Thessaloniki, Greece. He has more than 17-year experience in military as well as civil electronic telecommunication systems, in technical and managerial roles. In Intracom Defense Electronics (IDE), the major private Greek defence industry, Anastasios has been the Product Manager of WISPR, the key IDE system for military vehicles. Furthermore, he has been a Project Manager in SW maintenance of the Ericsson's AXE-10 telephone exchanges.