Desarrollo de ciencia y tecnología para la
Observación de la Tierra desde el espacio con radares de apertura sintética (DOT)

 DOT - Workshop on
 Science and Technology Development for Earth Observation from Space
 with Synthetic Aperture Radars (SAR)

Aimed to leading researchers, engineers and educators, as well as young scientists, students and engineers in contributing towards the development and construction of new generation SAR systems to be used in airborne and spaceborne platforms, in order to understand the dynamics of the Earth and its resources.

The workshop will gather international experts specialized in:
1. Technology development (hardware) from airborne to spaceborne SAR.
2. Signal processing (software) from airborne to spaceborne SAR.
3. Campaign planning and performance, including future and current space missions.
4. Applications on oceanography, atmospheric science, oil spills and vessel detection, flooding, 3-D mapping, biomass estimation, 3-D reconstruction or tomography, very high-resolution imaging and soil deformation.

Contributions are welcome and not limited to those themes, but in any relevant issue on building and applying SAR systems for Earth observation in order to enhance a Framework Program being endorsed by the Mexican Space Agency (AEM). This work represents a DOT Project (CONACYT-SRE 186144) contribution.

International cooperation is advanced to foster a Mexican Initiative (TOPMEX-9) to build new generation multi-static and task distributed SAR systems, to be flown in a cluster formation. Cooperation with technical institutions and companies are also being sought to support industry-research synergy. The TOPMEX-9 idea is already under way and during the DOT Workshop, it will be the focus for discussions and to prepare a technical proposal.

Thematic lectures will be held during morning sessions, while afternoons will be devoted to individual contributions and poster sessions, as well as group discussions of both airborne and spaceborne SAR. A hands-on session to develop capacities on the various components of SAR Systems will be organized for those young scientists and engineers interested.

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