

# **Texas A&M-FAPESP Research Program SPRINT – 1st Edition 2018- Awarded Proposals**

## **Geometry of Laplacian Growth Models**

Eviatar Procaccia, Mathematics, Texas A&M

Luiz Renato Fontes, Universidade de São Paulo (USP)

## **Comparative studies of the mineral transformation of iron oxide nanoparticles in mine-tailing affected sediments and soils and their impacts on mobilization and fixation of heavy metals under two contrasting redox environments**

Youjun Deng, Soil & Crop Sciences, Texas A&M

Tiago Osorio Ferreira, Universidade de São Paulo (USP)

## **Towards an Effective Approach to Determine the True Fiber/Matrix Interfacial Strength and Its Effect on Damage Mechanisms in Micro/Nano Cellulose Hybrid Composites**

Amir Asadi, Engineering Technology & Industrial Distribution, Texas A&M

José Ricardo Tarpani, Universidade de São Paulo (USP)

## **Improving water and food security in South America through the prediction of the timing of the rainy season**

Rodrigo Bombardi, Geography, Texas A&M

Jose Antonio Marengo Orsini, Instituto Nacional de Pesquisas Espaciais (INPE)

## **Facing Expansive Soils in Engineering Projects**

Marcelo Javier Sanchez Castilla, Civil Engineering, Texas A&M

Fernando Antônio Medeiros Marinho, Universidade de São Paulo (USP)