

The logo for DARS SWARM 2021, featuring the text "DARS SWARM" in a bold, sans-serif font, with "2021" to its right. The text is set against a dark, textured background that resembles a cluster of small dots or a stylized swarm.

**DARS
SWARM**

2021

Finalist Best Paper Award

The 4th International Symposium on
Swarm Behavior and Bio-Inspired Robotics

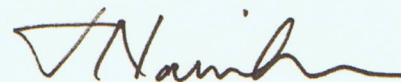
**“Multimodal Optimization by Particle Swarm
Optimization with Graph-Based Speciation
Using β -Relaxed Relative Neighborhood Graph”**

Tetsuyuki Takahama and Setsuko Sakai Takahama

A handwritten signature in dark ink, reading "F. Matsuno".

F. Matsuno

Prof. Fumitoshi Matsuno
General Chair

A handwritten signature in dark ink, reading "T. Namerikawa".

T. Namerikawa

Prof. Toru Namerikawa
Award Committee Chair