

Abstracts

SMX - A novel object-oriented optimization system

M.H. Bakr, J.W. Bandler, Q.S. Cheng, M.A. Ismail and J.E. Rayas-Sanchez. "SMX - A novel object-oriented optimization system." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 2083-2086 vol.3.

The novel, object-oriented SMX optimization system implements the powerful Surrogate Model-based Space Mapping (SMSM) algorithm, which is automated for the first time. SMX is capable of driving commercial EM, circuit and user-supplied simulators. The SMX architecture permits easy integration of new simulators and optimization tools. The power of SMX is illustrated through an optimization example exploiting Momentum.

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