

Peer Review

Review of: "Algorithmic Resilience Under Resource Constraints: The Novosibirsk School and the Method of Fractional Steps (1955–1975)"

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This manuscript makes a significant contribution to the history of computational mathematics by demonstrating how Soviet material constraints and pre-existing theoretical traditions jointly shaped the development of operator splitting methods during 1955–1975. The author compellingly argues that hardware scarcity on the BESM-6 acted not as a creative force but as a selection pressure that reinforced the Soviet mathematical culture's pre-existing commitment to operator-theoretic elegance, a nuanced thesis that avoids technological determinism while illuminating the distinctive "Novosibirsk school" trajectory.

Recommended for publication with minor revisions.

$\begin{enumerate}$ \item Equation (1) should specify boundary conditions for $u(x,y,z,t)$ to ensure well-posedness. \item In Eq. (2), the right-hand side appears incomplete; mi

Declarations

Potential competing interests: No potential competing interests to declare.