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**Analysis of factors affecting teachers' integration of ICT in mathematics instruction.**

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Summary: Based on survey and structural equation model analysis, this study probed into the factors affecting teachers' integration of ICT into mathematics instruction, and found: (1) The fitness between model hypothesis and data was approximately good; (2) Extrinsic environment factor was an important platform that sustains higher-level integration; (3) Individual factors (intrinsic) have had the most significant effect on higher-level integration.

*Classification:* U70 U50 C29 D39

*Keywords:* level of integration; information technology; cai; computer as educational medium; media technology; beliefs; teacher attitudes