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**Mohammed Hamdi Al-smadi\*** (mhm.smadi@yahoo.com), PO. Box 210, Jerash 26110, Jordan, Jerash, Outside US 00962, Jordan. *Analytical solutions of fuzzy initial value problems by RKHS method.* Preliminary report.

In this article, numerical solution of fuzzy initial value problems under strongly generalized differentiability by means of the reproducing kernel Hilbert space method is considered. The new approach provides the solution in the form of a rapidly convergent series with easily computable components using symbolic computation software in the space  $W_2^2 [a,b]$ . The proposed technique is applied to a two test examples to illustrate the accuracy, efficiency, and applicability of the method. The results reveal that the method is very effective, straightforward and simple. (Received September 17, 2013)