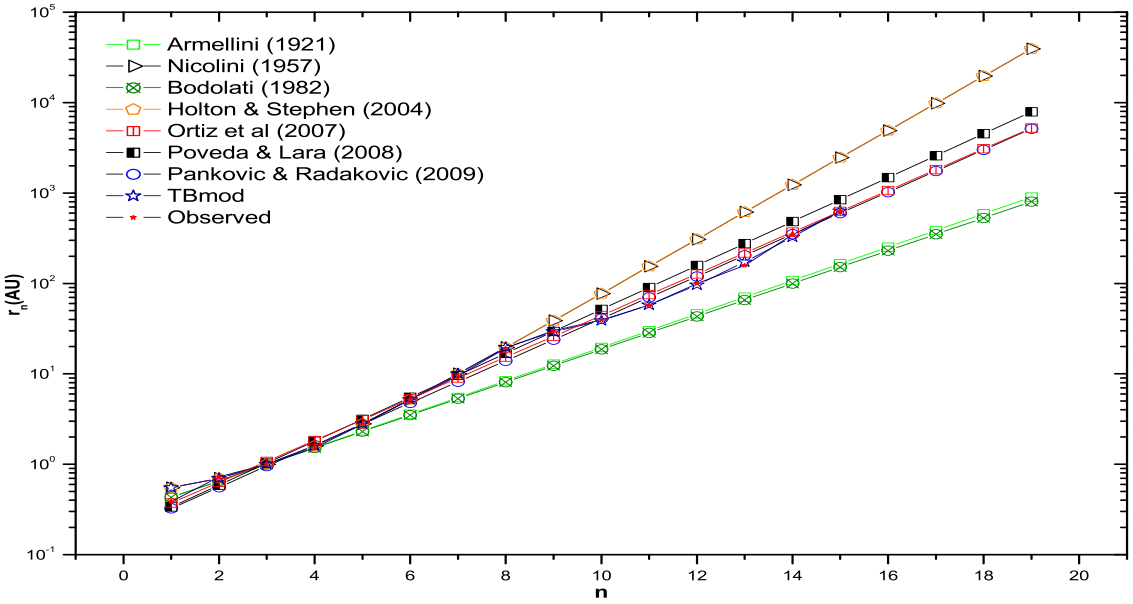

Fig. 2. Titius-Bode models of several authors including the TBmod variant proposed in this work. It is to be noted that the models are distributed above or below the real TB distribution of planets and the TBmod curvilinear path, which coincides with the values of the observed semi-major axes. We have chosen the logarithmic scale to better visualize the linear trace of the other six models. The color figure can be viewed online.

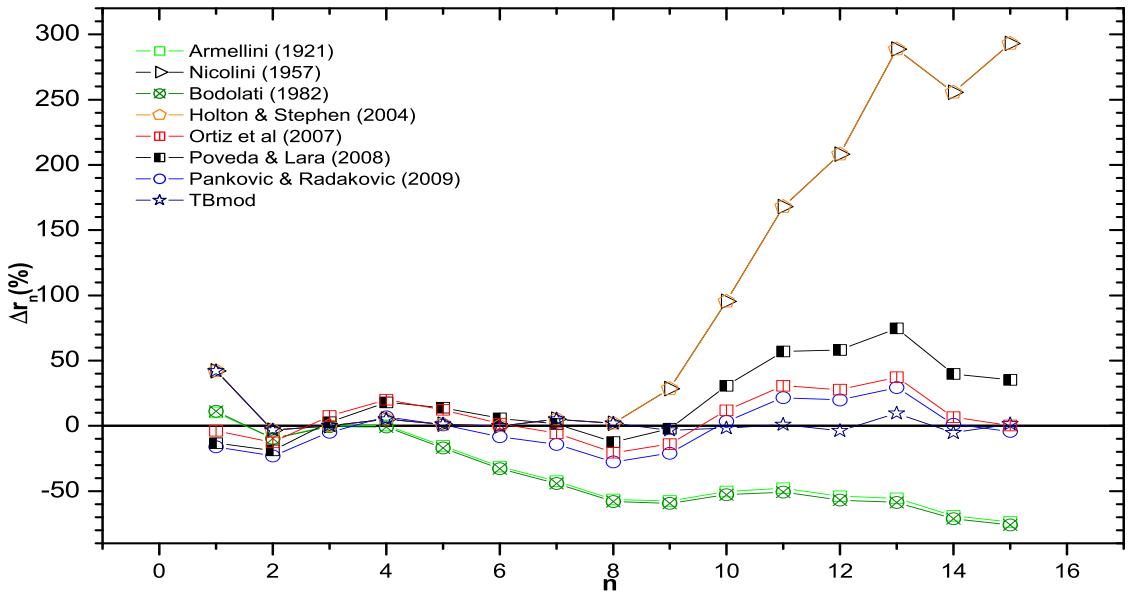

Fig. 3. The degree of certainty of the TB models proposed by various authors in terms of the ratio $\Delta a = (a_n - a_p)/a_p$. The color figure can be viewed online.

3. DEGREE OF CERTAINTY OF TBMOD

We realize that the modified TBmod model acceptably reproduces the orbital parameters a_n. We have examined the degree of certainty of the model through the differences between the calculated parameters (a_n, T_n) and those observed (a_p, T_p) by the ratio $\Delta a = (a_n - a_p)/a_p$, and similarly by calculating the ratio $\Delta T = (T_n - T_p)/T_p$, where the periods are the parameters obtained from Kepler's