Physics Informed Neural Network!

Disclaimer: large parts of the lab are taken from this github repository and this one both based on the original work of Raissi, Perdikaris and Karniadakis (original paper).

The obstacle that they found to publish the article state in the fact that the idea is very simple, but produce good result.

- **+** Easy to code
- **+** Mesh free
- **-** Spectral problem with complicated problem

Definition

Physics Informed Neural Netwoks (PINN) relates deep learning and Partial Differential Equations (PDEs). The main idea is not to purely rely on data, but to exploit the physical model (i.e. the *residual* of the PDE) in the loss function.

Pro: the approach is totally mesh-free.

Cons: difficult to train for complicated problems.

The loss

Let us be more specific:

The loss function of a PINN is made by:

- boundary information
- residual information

Let us suppose that the physical system we are studying is described by a PDE of the form $\mathcal{R}(w(\mathbf{x})) = 0$

Namely, we want to fine a surrogate Neural Network $\tilde{w}$ that minimizes:

$$MSE \doteq MSE_b + MSE_p.$$

where

$$MSE_b \doteq \frac{1}{N_b} \sum_{k=1}^{N_b} |\tilde{w}(\mathbf{x}_k^b) - w(\mathbf{x}_k^b)|^2,$$

hence, it is define in the boundary of the domain, for $\mathbf{x}_k^b \in \partial\Omega$.

Here, MSE_b is the *boundary* loss. While

$$MSE_p \doteq \frac{1}{N_p} \sum_{k=1}^{N_p} |\mathcal{R}(\tilde{w}(\mathbf{x}_k^p))|^2.$$

is the *physical* (or residual) loss for $\mathbf{x}_k^p \in \Omega$, the points in the domain are the collocation problem.

Indeed, the system is

$$\begin{cases} PDE(\Omega) = 0 \\ bcs \text{ Neumann condition on the boundary} \\ \omega(\partial\Omega) = 0 \text{ Dirichlet condition} \end{cases}$$

A first Example: the 1D heat equation

The physical model is given in the **space-time** domain $[0, 2] \times [0, 1]$:

$$\frac{du}{dx} = \frac{2du}{dt} + u$$

with the following boundary (initial) condition $u(x, 0) = 6e^{-3x}$

- Independent variables: x,t (input)
- Dependent variables: u (outputs)

We have to find out u(x,t) for all x in range [0,2] and t in range [0,1]

Analytically, the solution is $u(x, t) = 6e^{(-3x-2t)}$, that is our reference.

```
In [1]:  #### starting stuff ####

         import torch
         import torch.nn as nn
         from torch.autograd import Variable

         import numpy as np
```

Let uf define the Neural Network!

Question time! what are the input and output dimension? Two dimension in input (`nn.Linear(2,5)`) and one dimension in output (`nn.Linear(5,1)`).

In [2]:
```python
# Implementation of the Net
class Net(nn.Module):
    def __init__(self):
        super(Net, self).__init__()
        self.input_layer = nn.Linear(2,5) # Input
        self.hidden_layer1 = nn.Linear(5,5) # Hidden Layer
        self.hidden_layer2 = nn.Linear(5,5)
        self.hidden_layer3 = nn.Linear(5,5)
        self.hidden_layer4 = nn.Linear(5,5)
        self.output_layer = nn.Linear(5,1) # Output

    def forward(self, x,t): # Activation function
        input = torch.cat([x,t],axis=1) # combines the column array just to have only one input
        layer1_out = torch.sigmoid(self.input_layer(input))
        layer2_out = torch.sigmoid(self.hidden_layer1(layer1_out))
        layer3_out = torch.sigmoid(self.hidden_layer2(layer2_out))
        layer4_out = torch.sigmoid(self.hidden_layer3(layer3_out))
        layer5_out = torch.sigmoid(self.hidden_layer4(layer4_out))
        output = self.output_layer(layer5_out)
        return output
```

In [3]:
```python
### (2) Model
net = Net() # Call the function that we have just implemented
mse_cost_function = torch.nn.MSELoss() # Mean squared error
optimizer = torch.optim.Adam(net.parameters())
```

In [ ]:
```python
## PDE as loss function. Thus would use the network which we call as u_theta
def R(x,t, net): # PDE(w)=R(w) that is the residual
    u = net(x,t) # the dependent variable u is given by the network based on independent variables x,t
    ## Based on our R = du/dx - 2du/dt - u, we need du/dx and du/dt -- HOW TO PERFORM DERIVATIVES?
    u_x = torch.autograd.grad(u.sum(), x, create_graph=True)[0] # du/dx, taking the first element that is the derivative
    u_t = torch.autograd.grad(u.sum(), t, create_graph=True)[0] # du/dt

    # We are use u.sum() because when we have a tensor, we can transforme it in a scalar
    # So that we can performe the backpropagation on this scalar

    # PAY ATTENTION - In this part we can give u.sum() or not in relation on what we have to do!
    # Hence, pay attention on the different case!

    pde = u_x - 2*u_t - u

    return pde
```

In [ ]:
```python
## Data from Boundary Conditions
# u(x,0)=6e^(-3x)
## BC just gives us datapoints for training

# BC tells us that for any x in range[0,2] and time=0, the value of u is given by 6e^(-3x)
# Take say 500 random numbers of x
x_bc = np.random.uniform(low=0.0, high=2.0, size=(500,1)) # Define points in the boundary
t_bc = np.zeros((500,1)) # For every point in x, you have to associated a t point,
                         # for now we set 0 so that they are along the line of the boundary

# compute u based on BC
u_bc = 6*np.exp(-3*x_bc) # Using the solution
```

In [ ]:
```python
### (3) Training / Fitting
iterations = 10000
for epoch in range(iterations): # Epoch == iteration, we're NOT working with mini-batch
    optimizer.zero_grad() # to make the gradients zero -- To not have accomulation (as always)

    # Loss based on boundary conditions
        # Variable() because we want to set that this is a variable, but ...
        # ... requires_grad=False, hence we do not want to compute the derivatives on this variable
    pt_x_bc = Variable(torch.from_numpy(x_bc).float(), requires_grad=False) # Take evrithing to x_bc, without computing the gradient
    pt_t_bc = Variable(torch.from_numpy(t_bc).float(), requires_grad=False)
    pt_u_bc = Variable(torch.from_numpy(u_bc).float(), requires_grad=False)

    net_bc_out = net(pt_x_bc, pt_t_bc) # output of u(x,t) -- Computing only in the boundary point
    mse_u = mse_cost_function(net_bc_out, pt_u_bc) # Compute the sum in the formula fo the MSE := MSEb

    # Loss based on PDE
    x_collocation = np.random.uniform(low=0.0, high=2.0, size=(500,1)) # Compute some points inside the domain
    t_collocation = np.random.uniform(low=0.0, high=1.0, size=(500,1)) # As before, set all element of t related to x
    all_zeros = np.zeros((500,1))

    # Definition of the variable
        # Here, we have requires_grad=True because we want to compute the gradient wrt
        # these variabile when we call R function
    pt_x_collocation = Variable(torch.from_numpy(x_collocation).float(), requires_grad=True) # The points that we have just define x_collocat
    pt_t_collocation = Variable(torch.from_numpy(t_collocation).float(), requires_grad=True)
    pt_all_zeros = Variable(torch.from_numpy(all_zeros).float(), requires_grad=False)

    f_out = R(pt_x_collocation, pt_t_collocation, net) # output of R(x,t) --> That we call here
    mse_f = mse_cost_function(f_out, pt_all_zeros)

    # Combining the loss functions
    loss = mse_u + mse_f # We can add a coefficient to put the loss (mse_f & mse_u) at the same order of magnitude
```

```python
    loss.backward()
optimizer.step()

with torch.autograd.no_grad():
    print(epoch,"Loss:",loss.item())
```

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optimizer.step()

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    print(epoch,"Loss:",loss.item())
```

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9939 Loss: 0.0027788029983639717
9940 Loss: 0.002709407825022936
9941 Loss: 0.0025907729286700487
9942 Loss: 0.003094329033046961
9943 Loss: 0.0030714853201061487
9944 Loss: 0.0026042910758405924
9945 Loss: 0.0033411184469895124
9946 Loss: 0.003052140586078167
9947 Loss: 0.0038051865994930267
9948 Loss: 0.002710578264668584
9949 Loss: 0.003019890049472451
9950 Loss: 0.0027694394811987877
9951 Loss: 0.003647990059107542
9952 Loss: 0.002423532772809267
9953 Loss: 0.003509269794449210
9954 Loss: 0.0036940490826964380
9955 Loss: 0.004801573231816292
9956 Loss: 0.0037110927514731884
9957 Loss: 0.0026555084623396397
9958 Loss: 0.0024864915758371353
9959 Loss: 0.002763177268207073
9960 Loss: 0.0028532431460916996
9961 Loss: 0.00396652752533555
9962 Loss: 0.0042848591692745686
9963 Loss: 0.004544146824628115
```

```
9964 Loss: 0.002659591380506754
9965 Loss: 0.003960730973631144
9966 Loss: 0.003616709727793932
9967 Loss: 0.0027611879631876945
9968 Loss: 0.0027235569432377815
9969 Loss: 0.002926838817074895
9970 Loss: 0.0026733181439340115
9971 Loss: 0.0037295660004019737
9972 Loss: 0.003172033466398716
9973 Loss: 0.00292727258564022
9974 Loss: 0.0031254468485713005
9975 Loss: 0.004203591495752335
9976 Loss: 0.0039284685626626015
9977 Loss: 0.0028691813349723816
9978 Loss: 0.002850878518074751
9979 Loss: 0.002825474366545677
9980 Loss: 0.00261507811956076
9981 Loss: 0.0028191618621349335
9982 Loss: 0.003163875313475728
9983 Loss: 0.005280236713588238
9984 Loss: 0.0033060433343052864
9985 Loss: 0.003710653632879257
9986 Loss: 0.0033798906952142715
9987 Loss: 0.004880223423242569
9988 Loss: 0.003036266192793846
9989 Loss: 0.004350394010543823
9990 Loss: 0.0032133536878973246
9991 Loss: 0.003102616174146533
9992 Loss: 0.002909323200583458
9993 Loss: 0.002726916689425707
9994 Loss: 0.0038629723712801933
9995 Loss: 0.0025391795206815004
9996 Loss: 0.0031294168438762426
9997 Loss: 0.003450652351602912
9998 Loss: 0.004076635465025902
9999 Loss: 0.003990635741502047
```

In [ ]:
```python
# Plot some results
from mpl_toolkits.mplot3d import Axes3D
import matplotlib.pyplot as plt
from matplotlib import cm
from matplotlib.ticker import LinearLocator, FormatStrFormatter
import numpy as np

fig = plt.figure()
ax = fig.add_subplot(projection='3d')

x=np.arange(0,2,0.02)
t=np.arange(0,1,0.02)
ms_x, ms_t = np.meshgrid(x, t)

## Just because meshgrid is used, we need to do the following adjustment
x = np.ravel(ms_x).reshape(-1,1)
t = np.ravel(ms_t).reshape(-1,1)

pt_x = Variable(torch.from_numpy(x).float(), requires_grad=True)
pt_t = Variable(torch.from_numpy(t).float(), requires_grad=True)
pt_u = net(pt_x,pt_t)
u=pt_u.data.cpu().numpy()
ms_u = u.reshape(ms_x.shape)

surf = ax.plot_surface(ms_x,ms_t,ms_u, cmap=cm.coolwarm,linewidth=0, antialiased=False)
fig.colorbar(surf, shrink=0.5, aspect=5)

plt.show()
```
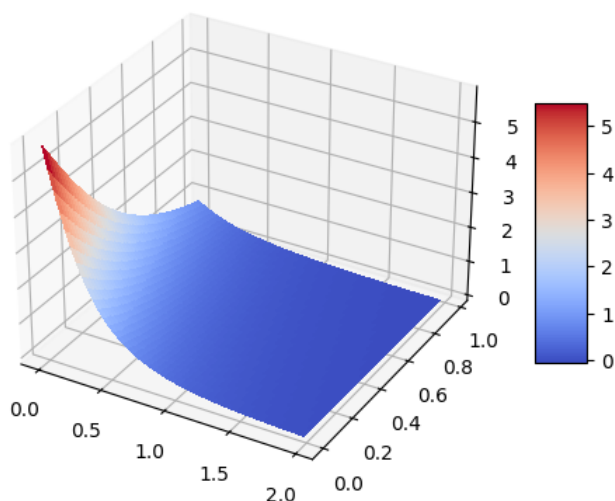

In [8]:
```python
fig = plt.figure()
ax = fig.add_subplot(projection='3d')

pt_x = Variable(torch.from_numpy(x).float(), requires_grad=True).detach().numpy()
```
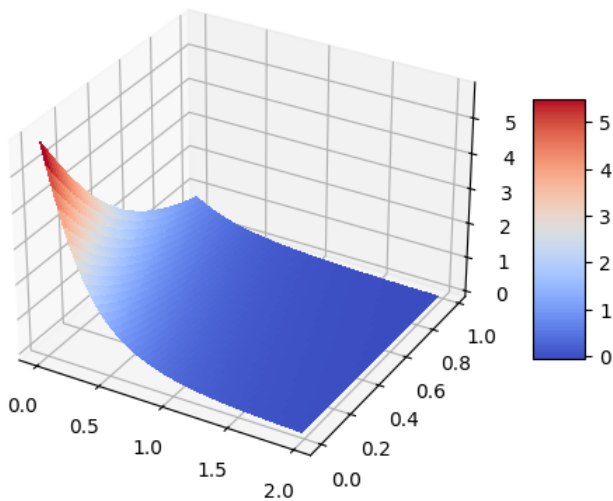
```
pt_t = Variable(torch.from_numpy(t).float(), requires_grad=True).detach().numpy()
R_u = 6*np.exp(-3*pt_x - 2*pt_t)
u=pt_u.data.cpu().numpy()
ms_u = u.reshape(ms_x.shape)

surf = ax.plot_surface(ms_x,ms_t,ms_u, cmap=cm.coolwarm,linewidth=0, antialiased=False)

fig.colorbar(surf, shrink=0.5, aspect=5)

plt.show()
```


Your Turn: let's change the equation

Take a look to this github repository. The proposed tutorial is a bit more involved.

We suggest to study it and to try to understand it line-by-line. Try to solve this equations that is a little bit more complicated.

It tries to represent the solution of the Burgers equation

$$u_t + \lambda_1 u u_x - \lambda_2 u_{xx}$$

for some fixed parameters λ_1 and λ_2.

Since no analytical solution is present, the code uses data provided by numerical simulations (that you can find in the folder data). Notice, that the solution changing varing the parameters, and we can consider them fixed or variable.

In [9]:
```python
import sys
sys.path.insert(0, '../Utilities/')

import torch
from collections import OrderedDict

import numpy as np
import matplotlib.pyplot as plt
import scipy.io
from scipy.interpolate import griddata
from mpl_toolkits.axes_grid1 import make_axes_locatable
import matplotlib.gridspec as gridspec
import warnings

warnings.filterwarnings('ignore')

np.random.seed(1234)
```

In [10]:
```python
# the deep neural network

# Build the constraction of the net, just in a contract for with some for loop
class DNN(torch.nn.Module):
    def __init__(self, layers):
        super(DNN, self).__init__()

        # parameters
        self.depth = len(layers) - 1

        # set up layer order dict
        self.activation = torch.nn.Tanh

        layer_list = list()
        for i in range(self.depth - 1):
            layer_list.append(
                ('layer_%d' % i, torch.nn.Linear(layers[i], layers[i+1]))
            )
            layer_list.append(('activation_%d' % i, self.activation()))

        layer_list.append(
            ('layer_%d' % (self.depth - 1), torch.nn.Linear(layers[-2], layers[-1]))
```

```python
        )
        layerDict = OrderedDict(layer_list)

        # deploy layers
        self.layers = torch.nn.Sequential(layerDict) ## layer, activation, layer, activation

    def forward(self, x):
        out = self.layers(x) # self.layers := are the sequential of all the layer --> Just done in a compact way
        return out
```

```python
# the physics-guided neural network

# PNN definition
class PhysicsInformedNN():
    def __init__(self, X, u, layers, lb, ub):

        # boundary conditions
        self.lb = torch.tensor(lb).float()
        self.ub = torch.tensor(ub).float()

        # data
        self.x = torch.tensor(X[:, 0:1], requires_grad=True).float()
        self.t = torch.tensor(X[:, 1:2], requires_grad=True).float()
        self.u = torch.tensor(u).float()

        # settings -- If you want to fix
        self.lambda_1 = torch.tensor([0.0], requires_grad=True)
        self.lambda_2 = torch.tensor([-6.0], requires_grad=True)

        # settings -- If you want to find the value of lambda, you have just to set them as parameters
        self.lambda_1 = torch.nn.Parameter(self.lambda_1)
        self.lambda_2 = torch.nn.Parameter(self.lambda_2)

        # deep neural networks
        self.dnn = DNN(layers) # We call the net define before
        self.dnn.register_parameter('lambda_1', self.lambda_1)
        self.dnn.register_parameter('lambda_2', self.lambda_2)

        # optimizers: using the same settings
        self.optimizer = torch.optim.LBFGS(
            self.dnn.parameters(),
            lr=1.0,
            max_iter=50000,
            max_eval=50000,
            history_size=50,
            tolerance_grad=1e-5,
            tolerance_change=1.0 * np.finfo(float).eps,
            line_search_fn="strong_wolfe"       # can be "strong_wolfe"
        )

        self.optimizer_Adam = torch.optim.Adam(self.dnn.parameters())
        self.iter = 0

    def net_u(self, x, t):
        u = self.dnn(torch.cat([x, t], dim=1))
        return u

    def net_f(self, x, t):
        """ The pytorch autograd version of calculating residual """
        lambda_1 = self.lambda_1
        lambda_2 = torch.exp(self.lambda_2)
        u = self.net_u(x, t)

        # Definition of first derivative wrt to t
        u_t = torch.autograd.grad(
            u, t,
            grad_outputs=torch.ones_like(u),
            retain_graph=True,
            create_graph=True
        )[0]

        # Definition of first derivative wrt to x
        u_x = torch.autograd.grad(
            u, x, # Here I do NOT put the sum, so I'm working with all the tensor and not just a scalar ...
            grad_outputs=torch.ones_like(u), # ... hence we have to tell that dT/dT=1 with T a variable that we define
            # Indeed, here we have just write that du/du=1 because we're working with the tensor,
            # and no more with the scalar how we did before writing u.sum()
            retain_graph=True,
            create_graph=True
        )[0]

        # Definition of second derivatives wrt x
        u_xx = torch.autograd.grad(
            u_x, x,
            grad_outputs=torch.ones_like(u_x),
            retain_graph=True,
            create_graph=True
        )[0]

        f = u_t + lambda_1 * u * u_x - lambda_2 * u_xx
        return f

    def loss_func(self):
        u_pred = self.net_u(self.x, self.t)
```

```python
        f_pred = self.net_f(self.x, self.t)
        loss = torch.mean((self.u - u_pred) ** 2) + torch.mean(f_pred ** 2)
        self.optimizer.zero_grad()
        loss.backward()

        self.iter += 1
        if self.iter % 100 == 0:
            print(
                'Loss: %e, l1: %.5f, l2: %.5f' %
                (
                    loss.item(),
                    self.lambda_1.item(),
                    torch.exp(self.lambda_2.detach()).item()
                )
            )
        return loss

    def train(self, nIter):
        self.dnn.train()
        for epoch in range(nIter):
            u_pred = self.net_u(self.x, self.t)
            f_pred = self.net_f(self.x, self.t)
            loss = torch.mean((self.u - u_pred) ** 2) + torch.mean(f_pred ** 2)

            # Backward and optimize
            self.optimizer_Adam.zero_grad()
            loss.backward()
            self.optimizer_Adam.step()

            if epoch % 100 == 0:
                print(
                    'It: %d, Loss: %.3e, Lambda_1: %.3f, Lambda_2: %.6f' %
                    (
                        epoch,
                        loss.item(),
                        self.lambda_1.item(), # The prediction is also for lambda -- we need some data
                        torch.exp(self.lambda_2).item()
                    )
                )

        # Backward and optimize
        self.optimizer.step(self.loss_func)

    def predict(self, X):
        x = torch.tensor(X[:, 0:1], requires_grad=True).float()
        t = torch.tensor(X[:, 1:2], requires_grad=True).float()

        self.dnn.eval()
        u = self.net_u(x, t)
        f = self.net_f(x, t)
        u = u.detach().cpu().numpy()
        f = f.detach().cpu().numpy()
        return u, f
```

```python
In [12]: nu = 0.01/np.pi

N_u = 2000
layers = [2, 20, 20, 20, 20, 20, 20, 20, 20, 1]

data = scipy.io.loadmat('data/burgers_shock.mat') # Import the data

t = data['t'].flatten()[:,None]
x = data['x'].flatten()[:,None]
Exact = np.real(data['usol']).T

X, T = np.meshgrid(x,t)

X_star = np.hstack((X.flatten()[:,None], T.flatten()[:,None]))
u_star = Exact.flatten()[:,None]

# Doman bounds
lb = X_star.min(0)
ub = X_star.max(0)
```

```python
In [13]: noise = 0.0

# create training set
idx = np.random.choice(X_star.shape[0], N_u, replace=False)
X_u_train = X_star[idx,:]
u_train = u_star[idx,:]

# training
model = PhysicsInformedNN(X_u_train, u_train, layers, lb, ub)
model.train(0)

# At the end we reach a good approximation.' %
```

```
Loss: 2.379245e-02, l1: 0.18653, l2: 0.00230
Loss: 1.510439e-02, l1: 0.53338, l2: 0.00260
Loss: 1.136508e-02, l1: 0.58937, l2: 0.00322
Loss: 7.742971e-03, l1: 0.70138, l2: 0.00377
Loss: 5.504389e-03, l1: 0.75810, l2: 0.00399
Loss: 4.173984e-03, l1: 0.80020, l2: 0.00479
Loss: 3.057414e-03, l1: 0.85740, l2: 0.00573
Loss: 1.870770e-03, l1: 0.91171, l2: 0.00614
Loss: 1.104523e-03, l1: 0.94429, l2: 0.00595
Loss: 6.797987e-04, l1: 0.96606, l2: 0.00546
Loss: 4.730221e-04, l1: 0.97706, l2: 0.00504
Loss: 3.102128e-04, l1: 0.97665, l2: 0.00454
Loss: 2.329755e-04, l1: 0.98243, l2: 0.00416
Loss: 1.885898e-04, l1: 0.98526, l2: 0.00384
Loss: 1.491945e-04, l1: 0.98392, l2: 0.00347
Loss: 1.337306e-04, l1: 0.98290, l2: 0.00332
Loss: 1.136881e-04, l1: 0.98878, l2: 0.00339
Loss: 8.821491e-05, l1: 0.98976, l2: 0.00324
Loss: 7.781447e-05, l1: 0.98876, l2: 0.00328
Loss: 6.914230e-05, l1: 0.98658, l2: 0.00325
Loss: 5.792868e-05, l1: 0.99498, l2: 0.00329
Loss: 5.094261e-05, l1: 0.99577, l2: 0.00325
Loss: 4.715933e-05, l1: 0.99587, l2: 0.00323
Loss: 4.308285e-05, l1: 0.99407, l2: 0.00323
Loss: 3.923191e-05, l1: 0.99645, l2: 0.00325
Loss: 3.632144e-05, l1: 0.99563, l2: 0.00326
Loss: 3.335014e-05, l1: 0.99453, l2: 0.00328
Loss: 3.036366e-05, l1: 0.99730, l2: 0.00333
Loss: 2.859140e-05, l1: 0.99810, l2: 0.00334
Loss: 2.707079e-05, l1: 0.99648, l2: 0.00334
Loss: 2.496797e-05, l1: 0.99625, l2: 0.00333
Loss: 2.288576e-05, l1: 0.99695, l2: 0.00332
Loss: 2.108958e-05, l1: 0.99812, l2: 0.00330
Loss: 1.974920e-05, l1: 0.99783, l2: 0.00329
Loss: 1.837065e-05, l1: 0.99751, l2: 0.00329
Loss: 1.706044e-05, l1: 0.99787, l2: 0.00326
Loss: 1.594443e-05, l1: 0.99880, l2: 0.00325
Loss: 1.509693e-05, l1: 0.99860, l2: 0.00323
Loss: 1.452912e-05, l1: 0.99852, l2: 0.00323
Loss: 1.388160e-05, l1: 0.99782, l2: 0.00322
Loss: 1.314326e-05, l1: 0.99835, l2: 0.00321
Loss: 1.261405e-05, l1: 0.99876, l2: 0.00320
Loss: 1.215868e-05, l1: 0.99843, l2: 0.00320
Loss: 1.141523e-05, l1: 0.99895, l2: 0.00319
Loss: 1.057932e-05, l1: 0.99880, l2: 0.00318
Loss: 9.982006e-06, l1: 0.99879, l2: 0.00317
Loss: 9.204959e-06, l1: 0.99888, l2: 0.00315
Loss: 8.633679e-06, l1: 0.99892, l2: 0.00315
Loss: 8.033985e-06, l1: 0.99944, l2: 0.00316
Loss: 7.348279e-06, l1: 0.99957, l2: 0.00316
Loss: 6.853191e-06, l1: 0.99935, l2: 0.00316
Loss: 6.467846e-06, l1: 0.99928, l2: 0.00317
Loss: 6.223004e-06, l1: 0.99905, l2: 0.00317
Loss: 5.909767e-06, l1: 0.99806, l2: 0.00317
Loss: 5.534403e-06, l1: 0.99861, l2: 0.00317
Loss: 5.255200e-06, l1: 0.99928, l2: 0.00318
Loss: 5.015365e-06, l1: 0.99949, l2: 0.00319
Loss: 4.844318e-06, l1: 0.99994, l2: 0.00319
Loss: 4.622019e-06, l1: 0.99892, l2: 0.00319
Loss: 4.388066e-06, l1: 0.99873, l2: 0.00319
Loss: 4.258453e-06, l1: 0.99893, l2: 0.00320
Loss: 4.064746e-06, l1: 0.99918, l2: 0.00320
Loss: 3.914304e-06, l1: 0.99964, l2: 0.00321
Loss: 3.780486e-06, l1: 0.99966, l2: 0.00321
Loss: 3.646520e-06, l1: 0.99938, l2: 0.00321
Loss: 3.507149e-06, l1: 0.99979, l2: 0.00322
```

In [14]:
```python
# evaluations
u_pred, f_pred = model.predict(X_star)

error_u = np.linalg.norm(u_star-u_pred,2)/np.linalg.norm(u_star,2)

U_pred = griddata(X_star, u_pred.flatten(), (X, T), method='cubic')

lambda_1_value = model.lambda_1.detach().cpu().numpy()
lambda_2_value = model.lambda_2.detach().cpu().numpy()
lambda_2_value = np.exp(lambda_2_value)

error_lambda_1 = np.abs(lambda_1_value - 1.0) * 100
error_lambda_2 = np.abs(lambda_2_value - nu) / nu * 100

print('Error u: %e' % (error_u))
print('Error l1: %.5f%%' % (error_lambda_1))
print('Error l2: %.5f%%' % (error_lambda_2))
```

```
Error u: 1.394462e-03
Error l1: 0.04777%
Error l2: 1.05141%
```